



Natural Resources Conservation Service In cooperation with the Research Division of the College of Agricultural and Life Sciences, University of Wisconsin

Soil Survey of Burnett County, Wisconsin

Subset of Major Land Resource Areas 90 and 91



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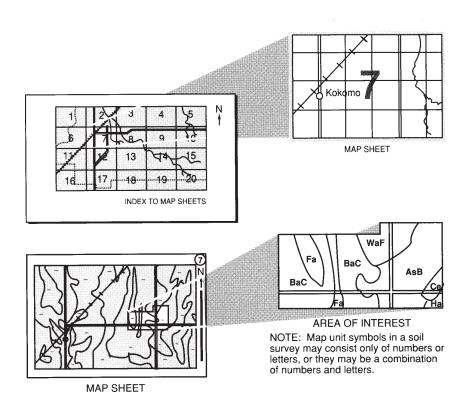
How To Use This Soil Survey

This publication consists of a manuscript and a set of soil maps. The information provided can be useful in planning the use and management of small areas.

To find information about your area of interest, locate that area on the **Index to Map Sheets**. Note the number of the map sheet and turn to that sheet.

Locate your area of interest on the map sheet. Note the map unit symbols that are in that area. Turn to the **Contents**, which lists the map units by symbol and name and shows the page where each map unit is described. The map symbols and names also appear as bookmarks, which link directly to the appropriate page in the publication.

The **Contents** shows which table has data on a specific land use for each detailed soil map unit. Also see the **Contents** for sections of this publication that may address your specific needs.



National Cooperative Soil Survey

This soil survey is a publication of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (formerly the Soil Conservation Service) has leadership for the Federal part of the National Cooperative Soil Survey. This survey was made cooperatively by the Natural Resources Conservation Service and the Research Division of the College of Agricultural and Life Sciences, University of Wisconsin. The survey is part of the technical assistance furnished to the Burnett County Land Conservation Department. The State of Wisconsin contributed funding towards the completion of this survey through the State Soil Survey Initiative. The Wisconsin Department of Natural Resources provided technical assistance.

Major fieldwork for this soil survey was completed in 2002. Soil names and descriptions were approved in 2003. Unless otherwise indicated, statements in this publication refer to conditions in the survey area in 2003. Digitizing of this soil survey was completed under the direction of the Madison, Wisconsin, digitizing unit in 2004. The most current official data are available on the Internet.

Soil maps in this survey may be copied without permission. Enlargement of these maps, however, could cause misunderstanding of the detail of mapping. If enlarged, maps do not show the small areas of contrasting soils that could have been shown at a larger scale.

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Cover Caption

An area of Newson-Meehan complex, 0 to 3 percent slopes, in the Crex Meadows Wildlife Area. These soils are suited to wetland wildlife habitat. The use of the area by migratory waterfowl has been enhanced by the creation of additional wetlands.

Additional information about the Nation's natural resources is available online from the Natural Resources Conservation Service at http://www.nrcs.usda.gov.

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Foreword

Soil surveys contain information that affects land use planning in survey areas. They include predictions of soil behavior for selected land uses. The surveys highlight soil limitations, improvements needed to overcome the limitations, and the impact of selected land uses on the environment.

Soil surveys are designed for many different users. Farmers, foresters, and agronomists can use the surveys to evaluate the potential of the soil and the management needed for maximum food and fiber production. Planners, community officials, engineers, developers, builders, and home buyers can use the surveys to plan land use, select sites for construction, and identify special practices needed to ensure proper performance. Conservationists, teachers, students, and specialists in recreation, wildlife management, waste disposal, and pollution control can use the surveys to help them understand, protect, and enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. The information in this report is intended to identify soil properties that are used in making various land use or land treatment decisions. Statements made in this report are intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

These and many other soil properties that affect land use are described in this soil survey. The location of each soil is shown on the detailed soil maps. Each soil in the survey area is described, and information on specific uses is given. Help in using this publication and additional information are available at the local office of the Natural Resources Conservation Service or the Cooperative Extension Service.

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Soil Survey of Burnett County, Wisconsin, Subset of Major Land Resource Areas 90 and 91

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How This Survey Was Made

This survey was made to provide information about the soils and miscellaneous areas in the survey area, which is in Major Land Resource Areas 90 and 91. The majority of MLRA 90 occurs in Wisconsin, and the majority of MLRA 91 occurs in Minnesota. Major land resource areas (MLRAs) are geographically associated land resource units that share a common land use, elevation, topography, climate, water, soils, and vegetation (USDA, 1981). Burnett County, which is in northwestern Wisconsin (fig. 1), is a subset of MLRA 90, Central Wisconsin and Minnesota Thin Loess and Till, and MLRA 91, Wisconsin and Minnesota Sandy Outwash. Map unit design and the soil descriptions are based on documentation of the occurrence of each soil throughout the MLRAs.

The information in this survey includes a brief description of the soils and miscellaneous areas and interpretive tables showing soil properties and the subsequent effects on suitability, limitations, and management for specified uses.

During the fieldwork for this survey, soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They dug many holes to study the soil profile, which is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

The soils and miscellaneous areas in the survey area are in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landscape or segment of the landscape. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landscape, soil scientists develop a concept, or model, of how the soils were formed. Thus, during mapping, this model enables the soil scientists to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Individual soils on the landscape commonly merge into one another as their characteristics gradually change. To construct an accurate map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an



Figure 1.—Location of Burnett County in Wisconsin.

understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they observed. The maximum depth of observation was about 80 inches (6.7 feet). Soil scientists noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, soil reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Interpretations are modified as necessary to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a zone in which the soil moisture status is wet within certain depths in most years, but they cannot predict that this zone will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Formation and Classification of the Soils

Soil is produced by the action of soil-forming processes on materials deposited or accumulated by geologic forces. The characteristics and properties of soil in a given area are determined by (1) the physical and mineralogical composition of the parent material; (2) the climate under which the soil material has accumulated and existed since accumulation; (3) the living organisms on and in the soil; (4) the relief, or lay of the land; and (5) the length of time the forces of soil formation have acted on the soil material (Jenny, 1941). The relative effect of each of these factors is reflected in the soil profile.

The interaction of these factors during the transformation of the parent material into soil generates complex physical, chemical, and biological processes that cause minerals to become weathered and organic matter to accumulate. Material in suspension or in solution moves downward through the soil to form definite layers, or horizons, in the soil. These layers—surface layer, subsurface layer, subsoil, and substratum—are defined in the Glossary.

All of the major factors of soil formation are interrelated. When one factor changes, the other four factors are affected. The following paragraphs describe the factors of soil formation as they relate to the soils in the survey area.

Parent Material

Parent material largely determines the physical and chemical properties of the soil, such as the capacity or ability of the soil to store water and nutrients for plants and the rate at which water can pass through the soil.

The soils in Burnett County formed in a wide variety of parent materials, including till, outwash, glaciolacustrine deposits, and alluvial deposits.

Till is unsorted, unstratified drift consisting mainly of clay, silt, and sand. It may contain gravel, cobbles, stones, or boulders. The till in the southern part of the county is dominantly sandy loam. Freeon and Magnor soils are examples of soils that formed in silty deposits and in the underlying loamy till. The loamy till is dense at a depth of 40 to 60 inches. This dense layer restricts the movement of water through the soil. Branstad and Alstad soils are examples of soils that formed in loamy calcareous till. These soils occur south of Grantsburg.

Fremstadt and Spoonerhill soils are examples of till soils that are dominantly sandy throughout. They have a thin loamy upper layer but have friable sandy till in the subsoil and substratum. These soils are in the east-central part of the county on moraines surrounded by sandy outwash soils.

Outwash is sand, sand and gravel, or stratified sand and gravel deposited by water flowing from a melting glacier. Rosholt, Scott Lake, and Oesterle soils formed mostly in loamy deposits over sandy and gravelly outwash. Antigo and Sconsin soils formed mostly in silty deposits over sandy and gravelly outwash. These soils are mostly in the southeastern part of the county.

Graycalm, Grettum, Mahtomedi, and Menahga soils are examples of outwash soils that are sandy or gravelly throughout. These soils are in the central and northwestern parts of the county.

Glaciolacustrine deposits are materials ranging from fine clay to sand derived from glaciers and deposited in glacial lakes, mainly by glacial meltwater. Many deposits are interbedded or laminated. In Burnett County, ice-walled lake plains formed as surrounding stagnant ice melted. These dish-shaped plateau formations are easy to recognize on topographic maps (Johnson, 2000). Barronett, Comstock, and Crystal Lake soils are examples of soils that formed in areas where these deposits are dominantly loamy. Sissabagama soils are examples of soils that formed in areas where loamy glaciolacustrine deposits are covered by deep deposits of sandy outwash.

Other glaciolacustrine deposits in Burnett County were laid down in areas once covered by Glacial Lake Grantsburg. Glacial Lake Grantsburg formed as the Grantsburg Sublobe of the Des Moines glacial advance dammed the southwest-flowing St. Croix River in the vicinity of Grantsburg. It is estimated that Glacial Lake Grantsburg lasted for about 80 to 100 years (Johnson, 2000). Dody, Karlsborg, and Perida soils are examples of soils that formed in areas where a thin layer of clayey Glacial Lake Grantsburg glaciolacustrine deposits were covered by moderately deep or deep sandy outwash or glaciolacustrine deposits. These soils are in the east-central part of the county. Alango, Indus, and Taylor soils are examples of soils that have thick clayey deposits. These soils are in the southwestern part of the county, east of Grantsburg.

Some of the soils in the county, such as Totagatic and Winterfield soils, formed in sandy postglacial alluvial deposits that were laid down as rivers overflowed and deposited fresh sediments on the flood plains. Fordum soils are examples of soils that formed in loamy alluvial deposits.

Climate

Climate influences soil formation by providing the moisture and temperatures necessary for the weathering of parent material. It also alters the parent material through the mechanical action of freezing and thawing.

Water dissolves and transfers soluble materials and nutrients to the lower parts of the soil. Reaction, or pH, is largely influenced by this process. Temperature affects the rate at which chemical reactions and biological processes proceed. These reactions and processes are slower at a lower temperature than at a higher temperature. Moisture and temperature also affect the kinds of plants and animals that grow on and in the soil. The accumulation and decomposition of organic material also are influenced by moisture and temperature.

Wind can affect the development of soil by adding or removing fine particles of soil or organic material. It also affects the moisture content of soils by influencing the rate of evaporation. Shawano soils in the southwestern part of the county are examples of soils in which the upper layers have been reworked by the wind.

Climate can also have more localized effects. For example, north- and east-facing slopes tend to be cooler and wetter than south- and west-facing slopes. Depressional areas generally have cooler temperatures for a longer part of the year than summits and slopes of hills.

Burnett County has a cool, subhumid continental climate that favors the growth of trees and the formation of leached, acid soils with a thin, dark surface layer and a clayenriched subsoil.

Living Organisms

Living organisms, such as plants, bacteria, fungi, insects, earthworms, nematodes, and rodents, influence the formation of soils. In addition to providing organic matter to the soil, their activities result in the development of soil structure and the formation of

voids in the soil and thus encourage the transferral of clay and nutrients from the upper layers to the subsoil.

Plants generally have more influence than other living organisms on soil formation. Plant roots excrete substances that act on the parent material to bring nutrients or mineral substances into solution. These nutrients are translocated by plant roots upward to stems and leaves. When the plants die, minerals and nutrients are released to the upper soil layers. The organic acids formed from the decaying plant residue accelerate soil formation by reacting with rock and mineral constituents. Plants also affect soil formation by modifying the effects of climate—for example, by removing soil moisture through evapotransportation and by reducing the hazard of erosion.

Soil organisms decompose organic compounds and sequester nitrogen and other nutrients and make them available to plants. Organisms in the soil also enhance soil structure and porosity as they move through the soil. Roots and percolating water follow the channels created by animal activity.

Relief

Relief is an important factor in soil formation because it affects drainage, aeration, and erosion.

Because relief influences runoff and drainage, it can affect the types of vegetation present and the chemical changes on and in the soil. Soil profile development occurs most rapidly in well drained, gently sloping areas. Profile development is slower on steep slopes, where runoff is rapid and the rate of water infiltration is slower. Excessive runoff reduces the amount of water that is available for leaching the soil and for use by plants, and it can increase the hazard of erosion. Differences in relief can account for the formation of different soils in similar kinds of parent material. For example, some soils in the county formed in similar kinds of parent material but have different drainage classes because they are in different positions on the landscape.

Oesterle and other somewhat poorly drained soils have redoximorphic features in the subsoil because of seasonal wetness. These soils commonly are less sloping and have a slower rate of surface runoff than the well drained soils. They are also lower on the landscape and typically receive runoff from the adjacent uplands.

Minocqua and other poorly drained and very poorly drained soils are in the lowest positions on the landscape, where runoff is very slow or ponded. They have a grayish subsoil as a result of prolonged saturation and poor aeration. The surface layer generally is darker and thicker than that of upland soils because the moisture content is more favorable for the accumulation of organic material.

In areas where accumulations of decomposing plant residue are thicker because of excessive wetness, organic soils have formed. Beseman, Cathro, and Markey soils are examples of soils that formed in organic material 16 to 51 inches thick over mineral deposits. Greenwood and Seelyeville soils are examples of soils that formed in organic material more than 51 inches thick.

Time

Time is required for the formation of soil. In most cases, the longer the other factors of soil formation have been allowed to act on the parent material, the more profile development can occur. Soils that are forming in parent material that has been deposited relatively recently, such as Fordum, Totagatic, and Winterfield soils, show very little profile development.

In upland areas that support woodland vegetation, the soils that have developed are characterized by organic matter that was produced by the decay of leaves, limbs, and trunks. This decay produced acids that percolated through the surface litter and into the soil and increased the mobility of clay, organic material, and oxides, which allowed

these substances to be leached away or to accumulate in the subsoil. Over a period of time, clay, organic matter, and oxides were removed from the surface layer and a thin bleached subsurface layer formed just below it. The clay, organic matter, and oxides accumulated in the subsoil horizons below this subsurface layer in the form of thin films on individual soil particles, on peds, and along cracks and pores. Freeon soils are examples of soils that formed in an area of woodland vegetation.

Classification of the Soils

The system of soil classification used by the National Cooperative Soil Survey has six categories (Soil Survey Staff, 1999 and 2003). Beginning with the broadest, these categories are the order, suborder, great group, subgroup, family, and series. Classification is based on soil properties observed in the field or inferred from those observations or from laboratory measurements. Table 1 shows the classification of the soils in the survey area. The categories are defined in the following paragraphs.

ORDER. Twelve soil orders are recognized. The differences among orders reflect the dominant soil-forming processes and the degree of soil formation. Each order is identified by a word ending in *sol*. An example is Alfisol.

SUBORDER. Each order is divided into suborders primarily on the basis of properties that influence soil genesis and are important to plant growth or properties that reflect the most important variables within the orders. The last syllable in the name of a suborder indicates the order. An example is Aqualf (*Aqu*, meaning water, plus *alf*, from Alfisol).

GREAT GROUP. Each suborder is divided into great groups on the basis of close similarities in kind, arrangement, and degree of development of pedogenic horizons; soil moisture and temperature regimes; type of saturation; and base status. Each great group is identified by the name of a suborder and by a prefix that indicates a property of the soil. An example is Epiaqualfs (*Epi*, meaning on or above, plus *aqualf*, the suborder of the Alfisols that has an aquic moisture regime).

SUBGROUP. Each great group has a typic subgroup. Other subgroups are intergrades or extragrades. The typic subgroup is the central concept of the great group; it is not necessarily the most extensive. Intergrades are transitions to other orders, suborders, or great groups. Extragrades have some properties that are not representative of the great group but do not indicate transitions to any other taxonomic class. Each subgroup is identified by one or more adjectives preceding the name of the great group. An example is Mollic Epiaqualfs.

FAMILY. Families are established within a subgroup on the basis of physical and chemical properties and other characteristics that affect management. Generally, the properties are those of horizons below plow depth where there is much biological activity. Among the properties and characteristics considered are particle-size class, mineralogy class, cation-exchange activity class, soil temperature regime, soil depth, and reaction class. A family name consists of the name of a subgroup preceded by terms that indicate soil properties. An example is fine-silty, mixed, superactive, frigid Mollic Epiaqualfs.

SERIES. The series consists of soils within a family that have horizons similar in color, texture, structure, reaction, consistence, mineral and chemical composition, and arrangement in the profile. An example is the Barronett series.

The Official Series Descriptions (OSDs) provide the most current information about the series mapped in Burnett County. These descriptions are available on the Web at http://soils.usda.gov.

Table 1.--Classification of the Soils

(An asterisk in the first column indicates a taxadjunct to the series)

Soil name	Family or higher taxonomic class				
Aftad	 				
	Very-fine, smectitic, frigid Vertic Epiaqualfs				
	Fine-loamy, mixed, superactive, frigid Aquic Glossudalfs				
Amery	Coarse-loamy, mixed, superactive, frigid Haplic Glossudalfs				
Antigo	Coarse-loamy over sandy or sandy-skeletal, mixed, superactive, frigid Haplic Glossudalfs				
Ausable	Sandy, mixed, frigid Histic Humaquepts				
Barronett	Fine-silty, mixed, superactive, frigid Mollic Epiaqualfs				
Beartree	Loamy-skeletal, mixed, superactive, frigid Lithic Endoaquolls				
	Loamy, mixed, dysic, frigid Terric Haplosaprists				
-	Sandy-skeletal, isotic, frigid Typic Hapludalfs				
	Sandy over clayey, mixed over smectitic, frigid Typic Epiaqualfs				
	Fine-loamy, mixed, superactive, frigid Typic Endoaquolls				
-	Euic, frigid Fluvaquentic Haplosaprists				
	Loamy, mixed, superactive, frigid Arenic Hapludalfs				
	Fine-loamy, mixed, superactive, frigid Oxyaquic Glossudalfs				
	Loamy, mixed, superactive, frigid Aquic Arenic Hapludalfs				
	Coarse-loamy, mixed, superactive, frigid Mollic Epiaqualfs				
	Loamy, mixed, euic, frigid Terric Haplosaprists Clayey over sandy or sandy-skeletal, smectitic over mixed, frigid Umbric Epiaqualfs				
	Loamy-skeletal, mixed, superactive, frigid Aquic Dystric Eutrudepts Fine-silty, mixed, superactive, frigid Aquic Glossudalfs				
	Sandy, mixed, frigid Humic Dystrudepts				
	Mixed, frigid Oxyaquic Udipsamments				
	Fine-silty, mixed, superactive, frigid Oxyaquic Glossudalfs				
_	Fine-loamy, mixed, superactive, frigid Haplic Glossudalfs				
_	Fine-loamy, mixed, superactive, frigid Oxyaquic Hapludalfs				
_	Sandy-skeletal, mixed, frigid Oxyaquic Hapludalfs				
_	Clayey, mixed, euic, frigid Terric Haplohemists				
	Sandy or sandy-skeletal, mixed, dysic, frigid Terric Haplosaprists				
	Clayey, smectitic, frigid Arenic Albaqualfs				
_	Clayey, smectitic, euic, frigid Terric Haplosaprists				
Orylanding	Loamy-skeletal, mixed, superactive, frigid Lithic Hapludolls				
Elderon	Sandy-skeletal, mixed, frigid Typic Dystrudepts				
Emmert	Sandy-skeletal, mixed, frigid Typic Udorthents				
Fenander	Coarse-loamy, mixed, superactive, frigid Udollic Epiaqualfs				
Fordum	Coarse-loamy, mixed, superactive, nonacid, frigid Mollic Fluvaquents				
	Coarse-loamy, mixed, superactive, frigid Oxyaquic Glossudalfs				
Fremstadt	Sandy, mixed, frigid Arenic Hapludalfs				
=	Sandy over clayey, mixed over smectitic, frigid Aquic Argiudolls				
_	Mixed, frigid Typic Udipsamments				
	Coarse-loamy, mixed, superactive, nonacid, frigid Mollic Epiaquepts				
_	Coarse-loamy, mixed, superactive, frigid Aquic Glossudalfs				
_	Mixed, frigid Lamellic Udipsamments				
	Mixed, frigid Typic Udipsamments				
	Dysic, frigid Typic Haplohemists				
	Mixed, frigid Lamellic Udipsamments Coarse-loamy, mixed, superactive, frigid Oxyaquic Glossudalfs				
=	Loamy, isotic, frigid Humic Lithic Dystrudepts				
-	Very-fine, smectitic, frigid Vertic Epiaqualfs				
	Very-fine, smeetitic, frigid Oxyaquic Hapludalfs				
_	Sandy, mixed, frigid Alfic Haplorthods				
	Sandy, mixed, frigid Entic Hapludolls				
	Sandy over clayey, mixed, superactive, frigid Oxyaquic Argiudolls				
	Mixed, frigid Oxyaquic Udipsamments				
	Mixed, frigid Aquic Udipsamments				
	Dysic, frigid Typic Haplosaprists				
=	Coarse-silty, isotic, frigid Humic Dystrudepts				
	Euic, frigid Typic Haplosaprists				
_	Coarse-loamy, mixed, superactive, frigid Aquic Glossudalfs				
	Mixed, frigid Typic Udipsamments				

Table 1.--Classification of the Soils--Continued

Soil name	Family or higher taxonomic class
Markey	 Sandy or sandy-skeletal, mixed, euic, frigid Terric Haplosaprists
Meehan	Mixed, frigid Aquic Udipsamments
Meenon	Clayey, smectitic, frigid Aquic Arenic Hapludalfs
Menahga	Mixed, frigid Typic Udipsamments
Milaca	Coarse-loamy, mixed, superactive, frigid Oxyaquic Glossudalfs
Minocqua	Coarse-loamy over sandy or sandy-skeletal, mixed, superactive, nonacid, frigid Typic Endoaquepts
Moppet	Coarse-loamy, mixed, superactive, frigid Oxyaquic Dystrudepts
Mora	Coarse-loamy, mixed, superactive, frigid Aquic Glossudalfs
Newson	Mixed, frigid Humaqueptic Psammaquents
Nokasippi	Fine-loamy, mixed, superactive, frigid Udollic Epiaqualfs
Oesterle	Coarse-loamy, mixed, superactive, frigid Aquic Glossudalfs
Ossmer	Coarse-loamy over sandy or sandy-skeletal, mixed, superactive, frigid Aquic Glossudalfs
Perchlake	Mixed, frigid Aquic Udipsamments
Perida	Clayey, smectitic, frigid Arenic Hapludalfs
Plainbo	Mixed, frigid Typic Udipsamments
Plover	Coarse-loamy, mixed, superactive, frigid Aquic Glossudalfs
Pomroy	Coarse-loamy, mixed, superactive, frigid Oxyaquic Hapludalfs
Rockmarsh	Loamy-skeletal, mixed, superactive, frigid Aquollic Hapludalfs
Rondeau	Marly, euic, frigid Limnic Haplosaprists
Rosholt	Coarse-loamy, mixed, superactive, frigid Haplic Glossudalfs
Sayner	Sandy, mixed, frigid Entic Haplorthods
Sconsin	Coarse-loamy, mixed, superactive, frigid Oxyaquic Glossudalfs
Scott Lake	Coarse-loamy, mixed, superactive, frigid Oxyaquic Glossudalfs
Seelyeville	Euic, frigid Typic Haplosaprists
Shawano	Mixed, frigid Typic Udipsamments
Siren	Fine-loamy over clayey, mixed, superactive, frigid Aquic Glossudalfs
Sissabagama	Mixed, frigid Oxyaquic Udipsamments
Skog	Sandy-skeletal, mixed, frigid Oxyaquic Udorthents
	Sandy, mixed, frigid Oxyaquic Dystrudepts
	Coarse-loamy over clayey, mixed over smectitic, superactive, frigid Aquic Argiudolls
Soderbeck	Loamy-skeletal, mixed, active, frigid Aquic Hapludolls
Spoonerhill	Sandy, mixed, frigid Oxyaquic Dystrudepts
Stengel	Clayey, smectitic, frigid Aquic Arenic Hapludalfs
Tawas	Sandy or sandy-skeletal, mixed, euic, frigid Terric Haplosaprists
	Very-fine, smectitic, frigid Aquertic Hapludalfs
-	Sandy, mixed, frigid Mollic Fluvaquents
•	Coarse-loamy over clayey, mixed over smectitic, superactive, frigid Oxyaquic Glossudalfs
	Sandy, mixed, frigid Entic Haplorthods
	Very-fine, smectitic, nonacid, frigid Histic Humaquepts
	Mixed, frigid Aquic Udipsamments
	Mixed, frigid Oxyaquic Udipsamments

Soil Map Unit Descriptions

The map units delineated on the soil maps in this survey represent the soils or miscellaneous areas in the survey area. These soils or miscellaneous areas are listed as individual components in the map unit descriptions. The map unit descriptions in this section, along with the maps, can be used to determine the suitability and potential of a unit for specific uses. They also can be used to plan the management needed for those uses. More information about each map unit is provided in the tables (see Contents).

A map unit delineation on the soil maps represents an area on the landscape. It is identified by differences in the properties and taxonomic classification of components and by the percentage of each component in the map unit.

Components that are dissimilar, or contrasting, are identified in the map unit description. Dissimilar components are those that have properties and behavioral characteristics divergent enough from those of the major components to affect use or to require different management. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps.

Components that are similar to the major components (noncontrasting) are not identified in the map unit description. Similar components are those that have properties and behavioral characteristics similar enough to those of the major components that they do not affect use or require different management.

The presence of multiple components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into segments that have similar use and management requirements. The delineation of such landscape segments on the map provides sufficient information for the development of resource plans, but if intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol is used for each map unit on the soil maps. This symbol precedes the map unit name in the map unit descriptions. Each description includes general information about the unit. The map unit descriptions include representative values in feet and the months in which a wet zone (a zone in which the soil moisture status is wet) is highest and lowest in the soil profile and ponding is shallowest and deepest on the soil surface. The descriptions also include the frequency of flooding (if it occurs) and the months in which flooding is most frequent and least frequent. Tables 25, 26, and 27 provide a complete display of this data for every month of the year. The available water capacity given in each map unit description is calculated for all horizons in the upper 60 inches of the soil profile. The organic matter content displayed in each map unit description is calculated for all horizons in the upper 10 inches of the soil profile, except those that represent the surface duff layer on forested soils. Table 23 provides a complete display of available water capacity and organic matter content by horizon.

The principal hazards and limitations to be considered in planning for specific uses are described in other sections of this survey.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer or of the underlying layers, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer or of the underlying layers. They also can differ in slope, stoniness, salinity, wetness, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. The name of a soil phase commonly indicates a feature that affects use or management. For example, Karlsborg sand, 1 to 6 percent slopes, is a phase of the Karlsborg series.

A map unit is named for the component or components that make up a dominant percentage of the map unit. Many map units consist of one dominant component. These map units are consociations. Meenon loamy sand, 0 to 3 percent slopes, is an example.

Some map units are made up of two or more dominant components. These map units are complexes or undifferentiated groups.

A *complex* consists of two or more components in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. Attempting to delineate the individual components of a complex would result in excessive clutter that could make the map illegible. The pattern and proportion of the components in a complex are somewhat similar in all areas. Haugen, very stony-Greenwood complex, 0 to 15 percent slopes, is an example.

An *undifferentiated group* is made up of two or more components that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the components in a mapped area are not uniform. An area can be made up of only one of the dominant components, or it can be made up of all of them. Seelyeville and Markey soils, 0 to 1 percent slopes, is an undifferentiated group in this survey area.

This survey includes miscellaneous areas. Such areas have little or no soil material and support little or no vegetation. Map unit 2015, Pits, is an example.

Table 2 gives the acreage and proportionate extent of each map unit. Other tables give properties of the soils and the limitations, capabilities, and potentials for many uses. The Glossary defines many of the terms used in describing the soils or miscellaneous areas.

3A—Totagatic-Bowstring-Ausable complex, 0 to 2 percent slopes, frequently flooded

Component Description

Totagatic and similar soils

Extent: 30 to 60 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 0 to 2 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Mostly sandy alluvium

Lowest frequency of flooding (if it occurs): Rare (January, February, July, August,

December)

Highest frequency of flooding: Frequent (April, May)

Shallowest depth to wet zone: At the surface (April, May, November, December)

Deepest depth to wet zone: 2.5 feet (February, August)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April, May)

Available water capacity to a depth of 60 inches: 5.4 inches Content of organic matter in the upper 10 inches: 28.2 percent

Typical profile:

Oa—0 to 4 inches; muck

Bw1—4 to 8 inches; loamy fine sand Bw2—8 to 17 inches; fine sand

Cg1—17 to 28 inches; fine sand

Cg2—28 to 46 inches; sand C—46 to 70 inches; sand

C'g—70 to 80 inches; sand

Bowstring and similar soils

Extent: 15 to 60 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Highly decomposed organic material that has thin layers of sandy or loamy material

Lowest frequency of flooding (if it occurs): Rare (January, February, July, August, December)

Highest frequency of flooding: Frequent (April, May)

Shallowest depth to wet zone: At the surface (April, May, November, December)

Deepest depth to wet zone: 2.5 feet (February, August)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, December Deepest ponding: 0.5 foot (April, May, November)

Available water capacity to a depth of 60 inches: 21.0 inches Content of organic matter in the upper 10 inches: 80.0 percent

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Typical profile:

Oa—0 to 38 inches; muck Cg—38 to 47 inches; fine sand O'a—47 to 80 inches; muck

Ausable and similar soils

Extent: 15 to 40 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 0 to 2 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Sandy alluvium with thin layers of organic material

Lowest frequency of flooding (if it occurs): Rare (January, February, July, August, December)

Highest frequency of flooding: Frequent (April, May)

Shallowest depth to wet zone: At the surface (April, May, November)

Deepest depth to wet zone: 2.5 feet (February, August)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, December

Deepest ponding: 0.5 foot (April, May, November)

Available water capacity to a depth of 60 inches: 6.9 inches

Content of organic matter in the upper 10 inches: 70.0 percent Typical profile:

Oa—0 to 10 inches; muck Cg—10 to 60 inches; sand

12A—Makwa stony muck, 0 to 1 percent slopes, extremely stony, frequently flooded

Component Description

Makwa and similar soils

Extent: 70 to 100 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 0 to 1 percent

Texture of the surface layer: Stony muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Skeletal loamy alluvium over silty and clayey glaciolacustrine deposits Lowest frequency of flooding (if it occurs): Rare (January, February, July, August,

December)

Highest frequency of flooding: Frequent (April, May)

Shallowest depth to wet zone: At the surface (April, May, November)

Deepest depth to wet zone: 2.5 feet (February, August)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, December *Deepest ponding:* 0.5 foot (April, May, November)

Available water capacity to a depth of 60 inches: 6.6 inches

Content of organic matter in the upper 10 inches: 71.8 percent

Typical profile:

Oa—0 to 8 inches; stony muck A—8 to 16 inches; very gravelly loam

Bw—16 to 43 inches; stratified extremely gravelly coarse sandy loam to extremely gravelly sandy clay loam

Cg—43 to 65 inches; extremely gravelly sandy loam 2C—65 to 80 inches; stratified silt loam to silty clay

22A—Comstock silt loam, 0 to 3 percent slopes

Component Description

Comstock and similar soils

Extent: 80 to 100 percent of the mapped areas Geomorphic setting: Lake plains; stream terraces Position on the landform: Footslopes and summits

Slope range: 0 to 3 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained Parent material: Silty lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)
Deepest depth to wet zone: 5.0 feet (September)

Ponding: None

Available water capacity to a depth of 60 inches: 11.4 inches

Content of organic matter in the upper 10 inches: 2.5 percent Typical profile:

Ap—0 to 8 inches; silt loam E—8 to 15 inches; silt loam B/E—15 to 21 inches; silt loam Bt—21 to 34 inches; silt loam

BC—34 to 44 inches; stratified silt loam to very fine sand C—44 to 60 inches; stratified silt loam to very fine sand

27A—Scott Lake sandy loam, 0 to 3 percent slopes

Component Description

Scott Lake and similar soils

Extent: 90 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; stream terraces

Position on the landform: Footslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 5.5 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 4.6 inches Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:

Ap—0 to 10 inches; sandy loam E/B—10 to 17 inches; sandy loam B/E—17 to 24 inches; sandy loam

2Bt—24 to 31 inches; gravelly loamy sand

2C-31 to 80 inches; stratified sand to very gravelly coarse sand

28B—Haugen-Rosholt complex, 2 to 6 percent slopes, very stony

Component Description

Haugen, very stony, and similar soils

Extent: 20 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Summits Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 60 to 80 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy loam till or mudflow sediments

Flooding: None

Shallowest depth to wet zone: 2.0 feet (March, April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 6.5 inches Content of organic matter in the upper 10 inches: 1.2 percent Typical profile:

A—0 to 4 inches; sandy loam Bw1—4 to 15 inches; sandy loam

Bw2—15 to 23 inches; gravelly sandy loam E/B—23 to 35 inches; gravelly sandy loam

B/E-35 to 49 inches; sandy loam

Bt—49 to 79 inches; gravelly sandy loam Cd—79 to 80 inches; gravelly sandy loam

Haugen and similar soils

Extent: 15 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Summits Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 60 to 80 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy loam till or mudflow sediments

Flooding: None

Shallowest depth to wet zone: 2.0 feet (March, April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 6.5 inches Content of organic matter in the upper 10 inches: 1.6 percent

Typical profile:

Ap—0 to 7 inches; sandy loam Bw1—7 to 15 inches; sandy loam

Bw2—15 to 23 inches; gravelly sandy loam E/B—23 to 35 inches; gravelly sandy loam

B/E-35 to 49 inches; sandy loam

Bt—49 to 79 inches; gravelly sandy loam Cd—79 to 80 inches; gravelly sandy loam

Rosholt, very stony, and similar soils

Extent: 10 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Summits

Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.6 inches Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

A—0 to 4 inches; sandy loam E—4 to 10 inches; sandy loam B/E—10 to 14 inches; sandy loam Bt—14 to 28 inches; sandy loam 2Bt-28 to 34 inches; gravelly loamy sand

2C-34 to 60 inches; stratified sand to very gravelly coarse sand

Rosholt and similar soils

Extent: 10 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Summits Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.7 percent

Typical profile:

Ap—0 to 8 inches; sandy loam E—8 to 10 inches; sandy loam B/E—10 to 14 inches; sandy loam Bt—14 to 28 inches; sandy loam

2Bt-28 to 34 inches; gravelly loamy sand

2C-34 to 60 inches; stratified sand to very gravelly coarse sand

28C—Haugen-Rosholt complex, 6 to 12 percent slopes, very stony

Component Description

Haugen, very stony, and similar soils

Extent: 25 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 60 to 80 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy loam till or mudflow sediments

Flooding: None

Shallowest depth to wet zone: 2.0 feet (March, April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 6.5 inches Content of organic matter in the upper 10 inches: 1.2 percent Typical profile:

A—0 to 4 inches; sandy loam Bw1—4 to 15 inches; sandy loam

Bw2—15 to 23 inches; gravelly sandy loam E/B—23 to 35 inches; gravelly sandy loam

B/E 25 to 40 inches; gravely barry local

B/E—35 to 49 inches; sandy loam

Bt—49 to 79 inches; gravelly sandy loam Cd—79 to 80 inches; gravelly sandy loam

Haugen and similar soils

Extent: 10 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Backslopes and shoulders Slope range: 6 to 12 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 60 to 80 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy loam till or mudflow sediments

Flooding: None

Shallowest depth to wet zone: 2.0 feet (March, April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 6.5 inches Content of organic matter in the upper 10 inches: 1.6 percent

Typical profile:

Ap—0 to 7 inches; sandy loam Bw1—7 to 15 inches; sandy loam

Bw2—15 to 23 inches; gravelly sandy loam E/B—23 to 35 inches; gravelly sandy loam

B/E-35 to 49 inches; sandy loam

Bt—49 to 79 inches; gravelly sandy loam Cd—79 to 80 inches; gravelly sandy loam

Rosholt, very stony, and similar soils

Extent: 10 to 40 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.6 inches Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

A—0 to 4 inches; sandy loam E—4 to 10 inches; sandy loam B/E—10 to 14 inches; sandy loam Bt—14 to 28 inches; sandy loam

2Bt—28 to 34 inches; gravelly loamy sand

2C-34 to 60 inches; stratified sand to very gravelly coarse sand

Rosholt and similar soils

Extent: 10 to 40 percent of the mapped areas Geomorphic setting: Disintegration moraines Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.7 percent

Typical profile:

Ap—0 to 8 inches; sandy loam E—8 to 10 inches; sandy loam B/E—10 to 14 inches; sandy loam Bt—14 to 28 inches; sandy loam

2Bt-28 to 34 inches; gravelly loamy sand

2C-34 to 60 inches; stratified sand to very gravelly coarse sand

38A—Rosholt sandy loam, 0 to 2 percent slopes

Component Description

Rosholt and similar soils

Extent: 80 to 100 percent of the mapped areas Geomorphic setting: Stream terraces; outwash plains

Position on the landform: Summits

Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.7 percent

Typical profile:

Ap—0 to 8 inches; sandy loam E—8 to 10 inches; sandy loam B/E—10 to 14 inches; sandy loam Bt—14 to 28 inches; sandy loam

2Bt-28 to 34 inches; gravelly loamy sand

2C-34 to 60 inches; stratified sand to very gravelly coarse sand

38B—Rosholt sandy loam, 2 to 6 percent slopes

Component Description

Rosholt and similar soils

Extent: 85 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; stream terraces Position on the landform: Backslopes and summits

Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.7 percent

Typical profile:

Ap—0 to 8 inches; sandy loam E—8 to 10 inches; sandy loam B/E—10 to 14 inches; sandy loam Bt—14 to 28 inches; sandy loam

2Bt-28 to 34 inches; gravelly loamy sand

2C-34 to 60 inches; stratified sand to very gravelly coarse sand

38C—Rosholt sandy loam, 6 to 12 percent slopes

Component Description

Rosholt and similar soils

Extent: 75 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; stream terraces Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.7 percent

Typical profile:

Ap—0 to 8 inches; sandy loam E—8 to 10 inches; sandy loam B/E—10 to 14 inches; sandy loam Bt—14 to 28 inches; sandy loam

2Bt—28 to 34 inches; gravelly loamy sand

2C—34 to 60 inches; stratified sand to very gravelly coarse sand

38D—Rosholt sandy loam, 12 to 20 percent slopes

Component Description

Rosholt and similar soils

Extent: 80 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; stream terraces Position on the landform: Backslopes and shoulders

Slope range: 12 to 20 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.7 percent Typical profile:

Ap—0 to 8 inches; sandy loam E—8 to 10 inches; sandy loam B/E—10 to 14 inches; sandy loam Bt—14 to 28 inches; sandy loam

2Bt—28 to 34 inches; gravelly loamy sand

2C-34 to 60 inches; stratified sand to very gravelly coarse sand

42D—Amery sandy loam, 12 to 25 percent slopes, very stony

Component Description

Amery and similar soils

Extent: 70 to 100 percent of the mapped areas Geomorphic setting: Disintegration moraines Position on the landform: Backslopes and shoulders

Slope range: 12 to 25 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 60 to 80 inches to dense material

Drainage class: Well drained

Parent material: Sandy loam till or mudflow sediments

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 7.2 inches Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

A—0 to 3 inches; sandy loam
Bw—3 to 22 inches; sandy loam
E/B—22 to 34 inches; sandy loam
B/E—34 to 41 inches; gravelly sandy loam

Bt1—41 to 57 inches; gravelly sandy loam Bt2—57 to 71 inches; sandy loam

Bt2—57 to 71 inches; sandy loam Cd—71 to 80 inches; sandy loam

43B—Antigo silt loam, 1 to 6 percent slopes

Component Description

Antigo and similar soils

Extent: 70 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; stream terraces

Position on the landform: Summits, shoulders, and backslopes

Slope range: 1 to 6 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loess or silty alluvium underlain by sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 7.3 inches Content of organic matter in the upper 10 inches: 1.9 percent Typical profile:

Ap—0 to 9 inches; silt loam E—9 to 12 inches; silt loam B/E—12 to 19 inches; silt loam Bt1—19 to 28 inches; silt loam 2Bt2—28 to 31 inches; loam

2Bt3—31 to 33 inches; very gravelly sandy loam

3C-33 to 60 inches; stratified sand to very gravelly coarse sand

43C—Antigo silt loam, 6 to 15 percent slopes

Component Description

Antigo and similar soils

Extent: 80 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; stream terraces Position on the landform: Shoulders and backslopes

Slope range: 6 to 15 percent Texture of the surface layer: Silt loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loess or silty alluvium underlain by sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 7.3 inches Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; silt loam E—9 to 12 inches; silt loam B/E—12 to 19 inches; silt loam Bt1—19 to 28 inches; silt loam 2Bt2—28 to 31 inches; loam

2Bt3—31 to 33 inches; very gravelly sandy loam

3C—33 to 60 inches; stratified sand to very gravelly coarse sand

63A—Crystal Lake silt loam, 0 to 2 percent slopes

Component Description

Crystal Lake and similar soils

Extent: 85 to 100 percent of the mapped areas

Geomorphic setting: Kames; lake plains; stream terraces

Position on the landform: Summits

Slope range: 0 to 2 percent Texture of the surface layer: Silt loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Mostly silty lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, August, September, October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 12.4 inches Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:

Ap—0 to 8 inches; silt loam E—8 to 12 inches; silt loam B/E—12 to 20 inches; silt loam Bt—20 to 32 inches; silt loam

C—32 to 60 inches; stratified silt loam to very fine sand

63B—Crystal Lake silt loam, 2 to 6 percent slopes

Component Description

Crystal Lake and similar soils

Extent: 85 to 100 percent of the mapped areas Geomorphic setting: Lake plains; stream terraces

Position on the landform: Backslopes, summits, and shoulders

Slope range: 2 to 6 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Mostly silty lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, August,

September, October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 12.4 inches Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:

Ap—0 to 8 inches; silt loam E—8 to 12 inches; silt loam B/E—12 to 20 inches; silt loam Bt—20 to 32 inches; silt loam

C—32 to 60 inches; stratified silt loam to very fine sand

63C—Crystal Lake silt loam, 6 to 12 percent slopes

Component Description

Crystal Lake and similar soils

Extent: 90 to 100 percent of the mapped areas Geomorphic setting: Lake plains; stream terraces Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Mostly silty lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, July, August, September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 12.4 inches Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:

Ap—0 to 8 inches; silt loam E—8 to 12 inches; silt loam B/E—12 to 20 inches; silt loam Bt—20 to 32 inches: silt loam

C—32 to 60 inches; stratified silt loam to very fine sand

64A—Totagatic-Winterfield complex, 0 to 2 percent slopes, frequently flooded

Component Description

Totagatic and similar soils

Extent: 45 to 65 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Mostly sandy alluvium

Lowest frequency of flooding (if it occurs): Rare (January, February, July, August, December)

Highest frequency of flooding: Frequent (April, May)

Shallowest depth to wet zone: At the surface (April, May, November, December)

Deepest depth to wet zone: 2.5 feet (February, August)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April, May)

Available water capacity to a depth of 60 inches: 5.4 inches Content of organic matter in the upper 10 inches: 28.2 percent

Typical profile:

Oa—0 to 4 inches; muck

Bw1-4 to 8 inches; loamy fine sand

Bw2-8 to 17 inches; fine sand

Cg1—17 to 28 inches; fine sand

Cg2—28 to 46 inches; sand

C-46 to 70 inches; sand

C'g-70 to 80 inches; sand

Winterfield and similar soils

Extent: 25 to 55 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 1 to 2 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Sandy alluvium

Lowest frequency of flooding (if it occurs): Rare (January, February, December)

Highest frequency of flooding: Frequent (April)

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.0 feet (September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 4.4 inches Content of organic matter in the upper 10 inches: 2.2 percent

Typical profile:

A—0 to 7 inches; loamy sand C—7 to 60 inches; sand

69C—Keweenaw-Sayner-Vilas complex, 6 to 15 percent slopes, stony

Component Description

Keweenaw and similar soils

Extent: 20 to 80 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Backslopes and shoulders

Slope range: 6 to 15 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained Parent material: Sandy till

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 5.8 inches Content of organic matter in the upper 10 inches: 0.6 percent

Typical profile:

A—0 to 2 inches; loamy sand E—2 to 4 inches; loamy sand

Bs1,Bs2—4 to 16 inches; loamy sand Bs3—16 to 20 inches; loamy sand E´—20 to 27 inches; loamy sand E/B—27 to 43 inches; sand

B/E—43 to 75 inches; loamy sand C—75 to 80 inches; loamy sand

Sayner and similar soils

Extent: 20 to 40 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Shoulders and backslopes

Slope range: 6 to 15 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained

Parent material: Sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.1 inches Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

A—0 to 2 inches; loamy sand E—2 to 4 inches; loamy sand

Bs1—4 to 7 inches; loamy sand

Bs2—7 to 14 inches; sand

BC—14 to 22 inches; gravelly sand

C-22 to 60 inches; stratified sand to very gravelly coarse sand

Vilas and similar soils

Extent: 10 to 30 percent of the mapped areas

Geomorphic setting: Disintegration moraines

Position on the landform: Shoulders and backslopes

Slope range: 6 to 15 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 1.5 percent

Typical profile:

A—0 to 2 inches; loamy sand E—2 to 4 inches; loamy sand Bs1—4 to 11 inches; loamy sand Bs2—11 to 23 inches; sand B—23 to 32 inches; sand

C-32 to 80 inches; sand

69E—Keweenaw-Sayner-Vilas complex, 15 to 45 percent slopes, stony

Component Description

Keweenaw and similar soils

Extent: 20 to 80 percent of the mapped areas Geomorphic setting: Disintegration moraines Position on the landform: Backslopes and shoulders

Slope range: 15 to 45 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained Parent material: Sandy till

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 5.8 inches Content of organic matter in the upper 10 inches: 0.6 percent

Typical profile:

A—0 to 2 inches; loamy sand E—2 to 4 inches; loamy sand

Bs1,Bs2—4 to 16 inches; loamy sand Bs3—16 to 20 inches; loamy sand

E´—20 to 27 inches; loamy sand

E/B—27 to 43 inches; sand

B/E—43 to 75 inches; loamy sand

C-75 to 80 inches; loamy sand

Sayner and similar soils

Extent: 20 to 40 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Backslopes and shoulders

Slope range: 15 to 45 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained

Parent material: Sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.1 inches Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

A—0 to 2 inches; loamy sand E—2 to 4 inches; loamy sand Bs1—4 to 7 inches; loamy sand Bs2—7 to 14 inches; sand

BC—14 to 22 inches; gravelly sand

C—22 to 60 inches; stratified sand to very gravelly coarse sand

Vilas and similar soils

Extent: 10 to 30 percent of the mapped areas Geomorphic setting: Disintegration moraines Position on the landform: Backslopes and shoulders

Slope range: 15 to 45 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 1.5 percent

Typical profile:

A—0 to 2 inches; loamy sand E—2 to 4 inches; loamy sand Bs1—4 to 11 inches; loamy sand Bs2—11 to 23 inches; sand B—23 to 32 inches; sand C—32 to 80 inches; sand

82B—Cutaway-Branstad complex, 1 to 6 percent slopes

Component Description

Cutaway and similar soils

Extent: 15 to 85 percent of the mapped areas

Geomorphic setting: Moraines
Position on the landform: Summits
Slope range: 1 to 6 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Sandy eolian deposits over calcareous loamy till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April, May)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 9.0 inches Content of organic matter in the upper 10 inches: 1.0 percent

Typical profile:

A—0 to 10 inches; loamy fine sand E—10 to 21 inches; loamy fine sand 2B/E—21 to 24 inches; fine sandy loam 2Bt1—24 to 35 inches; sandy clay loam

2Bt2—35 to 53 inches; loam 2C—53 to 80 inches; loam

Branstad and similar soils

Extent: 15 to 85 percent of the mapped areas

Geomorphic setting: Moraines
Position on the landform: Summits
Slope range: 2 to 6 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Loamy calcareous till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April, May)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, August,

September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 9.8 inches

Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam E—9 to 14 inches; fine sandy loam E/B—14 to 20 inches; fine sandy loam B/E—20 to 45 inches; sandy clay loam Bt1—45 to 55 inches; sandy clay loam Bt2—55 to 68 inches; fine sandy loam Btk—68 to 80 inches; fine sandy loam

82C—Cutaway-Branstad complex, 6 to 12 percent slopes

Component Description

Cutaway and similar soils

Extent: 50 to 85 percent of the mapped areas

Geomorphic setting: Moraines

Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Sandy eolian deposits over calcareous loamy till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April, May)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 9.0 inches Content of organic matter in the upper 10 inches: 1.0 percent

Typical profile:

A—0 to 10 inches; loamy fine sand E—10 to 21 inches; loamy fine sand 2B/E—21 to 24 inches; fine sandy loam 2Bt1—24 to 35 inches; sandy clay loam

2Bt2—35 to 53 inches; loam 2C—53 to 80 inches; loam

Branstad and similar soils

Extent: 15 to 50 percent of the mapped areas

Geomorphic setting: Moraines

Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Loamy calcareous till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April, May)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, August,

September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 9.8 inches Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam E—9 to 14 inches; fine sandy loam E/B—14 to 20 inches; fine sandy loam B/E—20 to 45 inches; sandy clay loam Bt1—45 to 55 inches; sandy clay loam Bt2—55 to 68 inches; fine sandy loam Btk—68 to 80 inches; fine sandy loam

83A—Smestad loamy fine sand, 0 to 3 percent slopes

Component Description

Smestad and similar soils

Extent: 70 to 100 percent of the mapped areas

Geomorphic setting: Lake plains Position on the landform: Footslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Sandy and loamy lacustrine deposits over clayey lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April, May)

Deepest depth to wet zone: More than 6.7 feet (July, August, September)

Ponding: None

Available water capacity to a depth of 60 inches: 6.4 inches Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:

Ap—0 to 10 inches; loamy fine sand Bw—10 to 32 inches; loamy fine sand 2Bt—32 to 37 inches; fine sandy loam

3Btg—37 to 57 inches; clay 3Bkg—57 to 80 inches; clay

85B—Taylor loam, 2 to 6 percent slopes

Component Description

Taylor and similar soils

Extent: 90 to 100 percent of the mapped areas

Geomorphic setting: Lake plains Position on the landform: Summits Slope range: 2 to 6 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Clayey lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.0 foot (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 7.0 inches Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; loam E—9 to 14 inches; clay loam Bt—14 to 25 inches; clay BC—25 to 32 inches; clay C—32 to 60 inches; clay

85C—Taylor loam, 6 to 12 percent slopes

Component Description

Taylor and similar soils

Extent: 90 to 100 percent of the mapped areas

Geomorphic setting: Lake plains

Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Clayey glaciolacustrine deposits; clayey lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.0 foot (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August, September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 7.0 inches Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; loam E—9 to 14 inches; clay loam Bt—14 to 25 inches; clay BC—25 to 32 inches; clay C—32 to 60 inches; clay

86A—Indus-Alango complex, 0 to 2 percent slopes

Component Description

Indus and similar soils

Extent: 60 to 85 percent of the mapped areas Geomorphic setting: Flats on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Clay loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained Parent material: Lacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, November)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.3 inches Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; clay loam Btg—9 to 21 inches; clay BC—21 to 25 inches; clay Ckg—25 to 39 inches; clay Cq—39 to 60 inches; clay

Alango and similar soils

Extent: 15 to 35 percent of the mapped areas

Geomorphic setting: Lake plains Position on the landform: Summits Slope range: 1 to 2 percent

Texture of the surface layer: Clay loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained Parent material: Lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.0 foot (April, May)

Deepest depth to wet zone: More than 6.7 feet (July, August, September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 8.7 inches Content of organic matter in the upper 10 inches: 2.8 percent

Typical profile:

Ap—0 to 9 inches; clay loam E—9 to 10 inches; silty clay loam

Btg—10 to 28 inches; clay Bkg—28 to 60 inches; clay Cq—60 to 80 inches; clay

89A—Wildwood muck, 0 to 1 percent slopes

Component Description

Wildwood and similar soils

Extent: 65 to 95 percent of the mapped areas Geomorphic setting: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Thin mantle of organic soil material over clayey lacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (April, May) Deepest depth to wet zone: 1.0 foot (January, February)

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 5.7 inches Content of organic matter in the upper 10 inches: 62.0 percent

Typical profile:

Oa—0 to 12 inches; muck A—12 to 17 inches; silty clay Bg—17 to 24 inches; clay Cg—24 to 60 inches; clay

96B—Karlsborg sand, 1 to 6 percent slopes

Component Description

Karlsborg and similar soils

Extent: 75 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains

Position on the landform: Summits Slope range: 1 to 6 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.2 percent Typical profile:

Ap—0 to 9 inches; sand Bw—9 to 28 inches; sand 2Bt—28 to 48 inches; clay 3C—48 to 80 inches; sand

96C—Karlsborg sand, 6 to 12 percent slopes

Component Description

Karlsborg and similar soils

Extent: 25 to 60 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap—0 to 9 inches; sand Bw—9 to 28 inches; sand 2Bt—28 to 48 inches; clay 3C—48 to 80 inches; sand

96D—Karlsborg sand, 12 to 20 percent slopes

Component Description

Karlsborg and similar soils

Extent: 75 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains Position on the landform: Backslopes and shoulders

Slope range: 12 to 20 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.2 percent Typical profile:

Ap—0 to 9 inches; sand Bw—9 to 28 inches; sand 2Bt—28 to 48 inches; clay 3C—48 to 80 inches; sand

100B—Menahga sand, 0 to 6 percent slopes

Component Description

Menahga and similar soils

Extent: 80 to 100 percent of the mapped areas

Geomorphic setting: Outwash plains Position on the landform: Summits Slope range: 0 to 6 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.1 inches Content of organic matter in the upper 10 inches: 0.5 percent

Typical profile:

A—0 to 2 inches; sand Bw—2 to 25 inches; sand C—25 to 80 inches; sand

100C—Menahga sand, 6 to 12 percent slopes

Component Description

Menahga and similar soils

Extent: 85 to 100 percent of the mapped areas

Geomorphic setting: Outwash plains

Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.8 inches

Content of organic matter in the upper 10 inches: 0.3 percent

Typical profile:

Oi—0 to 1 inch; slightly decomposed plant material

A-1 to 2 inches; sand

Bw—2 to 25 inches; sand C—25 to 80 inches; sand

100D—Menahga sand, 12 to 30 percent slopes

Component Description

Menahga and similar soils

Extent: 80 to 100 percent of the mapped areas

Geomorphic setting: Outwash plains

Position on the landform: Shoulders and backslopes

Slope range: 12 to 30 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.8 inches Content of organic matter in the upper 10 inches: 0.3 percent

Typical profile:

Oi—0 to 1 inch; slightly decomposed plant material

A—1 to 2 inches; sand Bw—2 to 25 inches; sand C—25 to 80 inches; sand

120B—Kost fine sand, 0 to 6 percent slopes

Component Description

Kost and similar soils

Extent: 75 to 100 percent of the mapped areas

Geomorphic setting: Outwash plains Position on the landform: Summits Slope range: 0 to 6 percent

Texture of the surface layer: Fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy eolian deposits

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.2 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap—0 to 9 inches; fine sand A—9 to 25 inches; fine sand Bw—25 to 36 inches; sand BC—36 to 42 inches; fine sand C—42 to 60 inches; sand

127D—Amery-Rosholt complex, 12 to 20 percent slopes, very stony

Component Description

Amery and similar soils

Extent: 40 to 80 percent of the mapped areas Geomorphic setting: Disintegration moraines Position on the landform: Backslopes and shoulders

Slope range: 12 to 20 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 60 to 80 inches to dense material

Drainage class: Well drained

Parent material: Sandy loam till or mudflow sediments

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 7.2 inches Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw—3 to 22 inches; sandy loam E/B—22 to 34 inches; sandy loam

B/E—34 to 41 inches; gravelly sandy loam Bt1—41 to 57 inches; gravelly sandy loam

Bt2—57 to 71 inches; sandy loam Cd—71 to 80 inches; sandy loam

Rosholt and similar soils

Extent: 15 to 60 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Shoulders and backslopes

Slope range: 12 to 20 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly

outwash Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.6 inches Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

A—0 to 4 inches; sandy loam E—4 to 10 inches; sandy loam B/E—10 to 14 inches; sandy loam Bt—14 to 28 inches; sandy loam

2Bt—28 to 34 inches; gravelly loamy sand

2C-34 to 60 inches; stratified sand to very gravelly coarse sand

127E—Amery-Rosholt complex, 20 to 45 percent slopes, very stony

Component Description

Amery and similar soils

Extent: 40 to 80 percent of the mapped areas Geomorphic setting: Disintegration moraines Position on the landform: Backslopes and shoulders

Slope range: 20 to 45 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 60 to 80 inches to dense material

Drainage class: Well drained

Parent material: Sandy loam till or mudflow sediments

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 7.2 inches Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw—3 to 22 inches; sandy loam E/B—22 to 34 inches; sandy loam

B/E—34 to 41 inches; gravelly sandy loam Bt1—41 to 57 inches; gravelly sandy loam

Bt2—57 to 71 inches; sandy loam Cd—71 to 80 inches; sandy loam

Rosholt and similar soils

Extent: 20 to 60 percent of the mapped areas Geomorphic setting: Disintegration moraines Position on the landform: Backslopes and shoulders

Slope range: 20 to 45 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly

outwash Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.6 inches
Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

A—0 to 4 inches; sandy loam E—4 to 10 inches; sandy loam B/E—10 to 14 inches; sandy loam Bt—14 to 28 inches; sandy loam

2Bt-28 to 34 inches; gravelly loamy sand

2C-34 to 60 inches; stratified sand to very gravelly coarse sand

151A—Bluffton loam, 0 to 2 percent slopes

Component Description

Bluffton and similar soils

Extent: 90 to 100 percent of the mapped areas

Geomorphic setting: Drainageways and depressions on moraines

Slope range: 0 to 2 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained Parent material: Loamy calcareous till

Flooding: None

Shallowest depth to wet zone: At the surface (April, May) Deepest depth to wet zone: 2.5 feet (February, August)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April, May)

Available water capacity to a depth of 60 inches: 8.9 inches Content of organic matter in the upper 10 inches: 4.0 percent Typical profile:

Ap—0 to 8 inches; loam A—8 to 19 inches; loam

Bg—19 to 22 inches; fine sandy loam C1—22 to 26 inches; fine sandy loam

C2-26 to 38 inches; loam

C3—38 to 60 inches; sandy clay loam

152A—Alstad loam, 0 to 3 percent slopes

Component Description

Alstad and similar soils

Extent: 75 to 100 percent of the mapped areas

Geomorphic setting: Moraines
Position on the landform: Footslopes

Slope range: 0 to 3 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained Parent material: Loamy calcareous till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 9.0 inches Content of organic matter in the upper 10 inches: 3.3 percent Typical profile:

Ap—0 to 9 inches; loam

E—9 to 15 inches; fine sandy loam E/B—15 to 18 inches; fine sandy loam B/E—18 to 24 inches; sandy clay loam

Bt—24 to 49 inches; sandy clay loam

C—49 to 60 inches; fine sandy loam

154E—Cushing fine sandy loam, 20 to 35 percent slopes

Component Description

Cushing and similar soils

Extent: 90 to 100 percent of the mapped areas

Geomorphic setting: Moraines

Position on the landform: Backslopes and shoulders

Slope range: 20 to 35 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loamy calcareous till

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 8.9 inches Content of organic matter in the upper 10 inches: 2.2 percent

Typical profile:

A—0 to 5 inches; fine sandy loam E—5 to 15 inches; fine sandy loam B/E—15 to 33 inches; fine sandy loam

Bt—33 to 57 inches; loam

Btk—57 to 65 inches; fine sandy loam Bk—65 to 73 inches; fine sandy loam C—73 to 80 inches; fine sandy loam

156B—Magnor, very stony-Magnor complex, 0 to 4 percent slopes

Component Description

Magnor, very stony, and similar soils

Extent: 5 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Footslopes

Slope range: 0 to 4 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Somewhat poorly drained

Parent material: Loess or silty alluvium underlain by dense loamy till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 9.1 inches Content of organic matter in the upper 10 inches: 1.1 percent Typical profile:

A—0 to 4 inches; silt loam E—4 to 11 inches; silt loam E/B—11 to 16 inches; silt loam

B/E—16 to 21 inches; silt loam

2Bt1,2Bt2—21 to 39 inches; sandy loam 2Bt3—39 to 58 inches; fine sandy loam 2Cd—58 to 60 inches; fine sandy loam

Magnor and similar soils

Extent: 5 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Footslopes

Slope range: 0 to 4 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Somewhat poorly drained

Parent material: Loess or silty alluvium underlain by dense loamy till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 9.1 inches Content of organic matter in the upper 10 inches: 1.7 percent

Typical profile:

Ap—0 to 8 inches; silt loam E—8 to 11 inches; silt loam E/B—11 to 16 inches; silt loam B/E—16 to 21 inches; silt loam

2Bt1,2Bt2—21 to 39 inches; sandy loam 2Bt3—39 to 58 inches; fine sandy loam 2Cd—58 to 60 inches; fine sandy loam

157B—Freeon, very stony-Freeon complex, 2 to 6 percent slopes

Component Description

Freeon, very stony, and similar soils

Extent: 5 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines Position on the landform: Summits and footslopes

Slope range: 2 to 6 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Loess or silty alluvium underlain by dense loamy till

Flooding: None

Shallowest depth to wet zone: 1.0 foot (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August,

September)
Ponding: None

Available water capacity to a depth of 60 inches: 9.1 inches Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

A—0 to 4 inches; silt loam E/B—4 to 19 inches; silt loam 2B/E—19 to 39 inches; sandy loam 2Bt—39 to 53 inches; sandy loam 2BCd—53 to 80 inches; sandy loam

Freeon and similar soils

Extent: 5 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Footslopes and summits

Slope range: 2 to 6 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Loess or silty alluvium underlain by dense loamy till

Flooding: None

Shallowest depth to wet zone: 1.0 foot (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August,

September)
Ponding: None

Available water capacity to a depth of 60 inches: 9.1 inches Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

Ap—0 to 4 inches; silt loam E/B—4 to 19 inches; silt loam 2B/E—19 to 39 inches; sandy loam 2Bt—39 to 53 inches; sandy loam 2BCd—53 to 80 inches; sandy loam

157C—Freeon, very stony-Freeon complex, 6 to 12 percent slopes

Component Description

Freeon, very stony, and similar soils

Extent: 5 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Loess or silty alluvium underlain by dense loamy till

Flooding: None

Shallowest depth to wet zone: 1.0 foot (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August,

September) *Ponding:* None

Available water capacity to a depth of 60 inches: 9.1 inches Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

A—0 to 4 inches; silt loam E/B—4 to 19 inches; silt loam 2B/E—19 to 39 inches; sandy loam 2Bt—39 to 53 inches; sandy loam 2BCd—53 to 80 inches; sandy loam

Freeon and similar soils

Extent: 5 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Loess or silty alluvium underlain by dense loamy till

Flooding: None

Shallowest depth to wet zone: 1.0 foot (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August,

September)
Ponding: None

Available water capacity to a depth of 60 inches: 9.1 inches Content of organic matter in the upper 10 inches: 1.1 percent

Typical profile:

Ap—0 to 4 inches; silt loam E/B—4 to 19 inches; silt loam 2B/E—19 to 39 inches; sandy loam 2Bt—39 to 53 inches; sandy loam 2BCd—53 to 80 inches; sandy loam

160A—Oesterle sandy loam, 0 to 2 percent slopes

Component Description

Oesterle and similar soils

Extent: 80 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; stream terraces

Position on the landform: Footslopes

Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.0 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 5.3 inches Content of organic matter in the upper 10 inches: 2.0 percent

Typical profile:

Ap—0 to 7 inches; sandy loam E/B—7 to 11 inches; sandy loam Bt—11 to 31 inches; sandy loam

2C-31 to 60 inches; stratified sand to very gravelly coarse sand

165B—Elderon sandy loam, 2 to 6 percent slopes

Component Description

Elderon and similar soils

Extent: 75 to 100 percent of the mapped areas Geomorphic setting: Stream terraces; eskers; kames

Position on the landform: Summits Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Thin loamy deposits over cobbly and gravelly sandy drift

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.0 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap—0 to 7 inches; sandy loam

Bs—7 to 15 inches; very cobbly coarse sandy loam
Bt—15 to 44 inches; extremely cobbly loamy coarse sand

C—44 to 60 inches; extremely cobbly coarse sand

185B—Tradelake-Taylor complex, 1 to 6 percent slopes

Component Description

Tradelake and similar soils

Extent: 40 to 80 percent of the mapped areas

Geomorphic setting: Lake plains Position on the landform: Summits Slope range: 1 to 6 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Loamy alluvium deposits over clayey lacustrine deposits over sandy

outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, July,

August, September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 7.3 inches Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam E—9 to 13 inches; fine sandy loam B/E—13 to 21 inches; fine sandy loam Bt1—21 to 25 inches; sandy loam 2Bt2,2Bt3—25 to 48 inches; clay 2Btg—48 to 52 inches; clay 3C—52 to 80 inches; sand

Taylor and similar soils

Extent: 20 to 60 percent of the mapped areas

Geomorphic setting: Lake plains Position on the landform: Summits

Slope range: 1 to 6 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Clayey lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.0 foot (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 7.0 inches Content of organic matter in the upper 10 inches: 1.9 percent Typical profile:

Ap—0 to 9 inches; fine sandy loam E—9 to 14 inches; clay loam Bt—14 to 25 inches; clay BC—25 to 32 inches; clay

C-32 to 60 inches; clay

185C—Tradelake-Taylor complex, 6 to 12 percent slopes

Component Description

Tradelake and similar soils

Extent: 40 to 80 percent of the mapped areas

Geomorphic setting: Lake plains

Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Loamy alluvium deposits over clayey lacustrine deposits over sandy

outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, July,

August, September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 7.3 inches Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam E—9 to 13 inches; fine sandy loam B/E—13 to 21 inches; fine sandy loam Bt1—21 to 25 inches; sandy loam 2Bt2,2Bt3—25 to 48 inches; clay 2Btg—48 to 52 inches; clay 3C—52 to 80 inches; sand

Taylor and similar soils

Extent: 20 to 60 percent of the mapped areas

Geomorphic setting: Lake plains

Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Clayey lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.0 foot (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 7.0 inches Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam E—9 to 14 inches; clay loam Bt—14 to 25 inches; clay BC—25 to 32 inches; clay C—32 to 60 inches; clay

185D—Tradelake-Taylor complex, 12 to 25 percent slopes

Component Description

Tradelake and similar soils

Extent: 40 to 85 percent of the mapped areas

Geomorphic setting: Lake plains

Position on the landform: Backslopes and shoulders

Slope range: 12 to 25 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Loamy alluvium deposits over clayey lacustrine deposits over sandy

outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, June, July,

August, September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 7.3 inches Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam E—9 to 13 inches; fine sandy loam B/E—13 to 21 inches; fine sandy loam Bt1—21 to 25 inches; sandy loam 2Bt2,2Bt3—25 to 48 inches; clay 2Btg—48 to 52 inches; clay 3C—52 to 80 inches; sand

Taylor and similar soils

Extent: 15 to 50 percent of the mapped areas

Geomorphic setting: Lake plains

Position on the landform: Backslopes and shoulders

Slope range: 12 to 25 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Clayey lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.0 foot (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 7.0 inches Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam

E—9 to 14 inches; clay loam Bt—14 to 25 inches; clay BC—25 to 32 inches; clay C—32 to 60 inches; clay

185E—Tradelake-Taylor complex, 25 to 35 percent slopes

Component Description

Tradelake and similar soils

Extent: 40 to 70 percent of the mapped areas

Geomorphic setting: Lake plains

Position on the landform: Backslopes and shoulders

Slope range: 25 to 35 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Loamy alluvium deposits over clayey lacustrine deposits over sandy

outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, June, July,

August, September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 7.3 inches Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam E—9 to 13 inches; fine sandy loam B/E—13 to 21 inches; fine sandy loam Bt1—21 to 25 inches; sandy loam 2Bt2,2Bt3—25 to 48 inches; clay 2Btg—48 to 52 inches; clay 3C—52 to 80 inches; sand

Taylor and similar soils

Extent: 30 to 60 percent of the mapped areas

Geomorphic setting: Lake plains

Position on the landform: Backslopes and shoulders

Slope range: 25 to 35 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Clayey lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.0 foot (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 7.0 inches Content of organic matter in the upper 10 inches: 1.9 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam E—9 to 14 inches; clay loam

Bt—14 to 25 inches; clay BC—25 to 32 inches; clay C—32 to 60 inches; clay

189A—Siren loam, 0 to 3 percent slopes

Component Description

Siren and similar soils

Extent: 65 to 100 percent of the mapped areas Geomorphic setting: Lake plains; stream terraces

Position on the landform: Footslopes

Slope range: 0 to 3 percent Texture of the surface layer: Loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Thin loamy mantle over clayey lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: More than 6.7 feet (August, September)

Ponding: None

Available water capacity to a depth of 60 inches: 7.2 inches Content of organic matter in the upper 10 inches: 3.2 percent

Typical profile:

Ap—0 to 9 inches; loam E—9 to 13 inches; sandy loam

B/E—13 to 20 inches; sandy clay loam

2Bt—20 to 43 inches; clay 2Bk—43 to 80 inches; clay

193A—Minocqua muck, 0 to 2 percent slopes

Component Description

Minocqua and similar soils

Extent: 70 to 100 percent of the mapped areas

Geomorphic setting: Depressions and drainageways on outwash plains and stream

terraces

Slope range: 0 to 2 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Silty and loamy alluvium underlain by sandy and gravelly outwash

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, November)

Deepest depth to wet zone: 2.5 feet (February, August)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April, May)

Available water capacity to a depth of 60 inches: 6.2 inches Content of organic matter in the upper 10 inches: 18.6 percent

Typical profile:

Oe—0 to 4 inches; muck Eg—4 to 15 inches; silt loam

2Bg-15 to 28 inches; loam

3C-28 to 60 inches; stratified sand to very gravelly coarse sand

337A—Plover fine sandy loam, 0 to 3 percent slopes

Component Description

Plover and similar soils

Extent: 75 to 100 percent of the mapped areas Geomorphic setting: Lake plains; stream terraces

Position on the landform: Footslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Stratified loamy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 5.0 feet (September)

Ponding: None

Available water capacity to a depth of 60 inches: 9.8 inches Content of organic matter in the upper 10 inches: 2.5 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam E—10 to 13 inches; fine sandy loam B/E—13 to 18 inches; fine sandy loam Bt—18 to 32 inches; fine sandy loam

C-32 to 60 inches; stratified fine sand to silt

368B—Mahtomedi-Cress complex, 2 to 6 percent slopes

Component Description

Mahtomedi and similar soils

Extent: 30 to 80 percent of the mapped areas

Geomorphic setting: Stream terraces; outwash plains

Position on the landform: Summits

Slope range: 2 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.7 inches Content of organic matter in the upper 10 inches: 0.5 percent

Typical profile:

A—0 to 5 inches; loamy sand

E-5 to 8 inches; sand

Bw1-8 to 15 inches; gravelly coarse sand

Bw2—15 to 30 inches; gravelly sand

C-30 to 60 inches; gravelly sand

Cress and similar soils

Extent: 15 to 60 percent of the mapped areas

Geomorphic setting: Stream terraces; outwash plains

Position on the landform: Summits

Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Thin layer of loamy alluvium underlain by stratified sandy and gravelly

outwash Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.9 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw1—3 to 15 inches; sandy loam 2Bw2—15 to 31 inches; loamy sand

2Bw3-31 to 36 inches; gravelly loamy sand

2C-36 to 60 inches; stratified sand to very gravelly coarse sand

368C—Mahtomedi-Cress complex, 6 to 12 percent slopes

Component Description

Mahtomedi and similar soils

Extent: 20 to 80 percent of the mapped areas

Geomorphic setting: Stream terraces; outwash plains Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.7 inches Content of organic matter in the upper 10 inches: 0.5 percent

Typical profile:

A—0 to 5 inches; loamy sand

E—5 to 8 inches; sand

Bw1—8 to 15 inches; gravelly coarse sand

Bw2—15 to 30 inches; gravelly sand

C-30 to 60 inches; gravelly sand

Cress and similar soils

Extent: 15 to 60 percent of the mapped areas

Geomorphic setting: Stream terraces; outwash plains Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Thin layer of loamy alluvium underlain by stratified sandy and gravelly

outwash Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.9 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw1—3 to 15 inches; sandy loam 2Bw2—15 to 31 inches; loamy sand

2Bw3—31 to 36 inches; gravelly loamy sand

2C-36 to 60 inches; stratified sand to very gravelly coarse sand

368D—Mahtomedi-Cress complex, 12 to 25 percent slopes

Component Description

Mahtomedi and similar soils

Extent: 20 to 75 percent of the mapped areas Geomorphic setting: Stream terraces; outwash plains Position on the landform: Backslopes and shoulders

Slope range: 12 to 25 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.7 inches Content of organic matter in the upper 10 inches: 0.5 percent

Typical profile:

A-0 to 5 inches; loamy sand

E-5 to 8 inches; sand

Bw1—8 to 15 inches; gravelly coarse sand

Bw2—15 to 30 inches; gravelly sand C—30 to 60 inches; gravelly sand

Cress and similar soils

Extent: 20 to 75 percent of the mapped areas

Geomorphic setting: Stream terraces; outwash plains Position on the landform: Shoulders and backslopes

Slope range: 12 to 25 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Thin layer of loamy alluvium underlain by stratified sandy and gravelly

outwash Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.9 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw1—3 to 15 inches; sandy loam 2Bw2—15 to 31 inches; loamy sand

2Bw3—31 to 36 inches; gravelly loamy sand

2C-36 to 60 inches; stratified sand to very gravelly coarse sand

368E—Mahtomedi-Cress complex, 25 to 35 percent slopes

Component Description

Mahtomedi and similar soils

Extent: 20 to 75 percent of the mapped areas

Geomorphic setting: Stream terraces; outwash plains Position on the landform: Shoulders and backslopes

Slope range: 25 to 35 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Gravelly sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.7 inches Content of organic matter in the upper 10 inches: 0.5 percent

Typical profile:

A—0 to 5 inches; loamy sand

E-5 to 8 inches; sand

Bw1—8 to 15 inches; gravelly coarse sand

Bw2—15 to 30 inches; gravelly sand C—30 to 60 inches; gravelly sand

Cress and similar soils

Extent: 20 to 75 percent of the mapped areas

Geomorphic setting: Stream terraces; outwash plains Position on the landform: Shoulders and backslopes

Slope range: 25 to 35 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Thin layer of loamy alluvium underlain by stratified sandy and gravelly

outwash Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.9 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw1—3 to 15 inches; sandy loam

2Bw2—15 to 31 inches; loamy sand

2Bw3-31 to 36 inches; gravelly loamy sand

2C-36 to 60 inches; stratified sand to very gravelly coarse sand

380B—Cress-Rosholt complex, 2 to 6 percent slopes

Component Description

Cress and similar soils

Extent: 35 to 75 percent of the mapped areas

Geomorphic setting: Outwash plains; stream terraces

Position on the landform: Summits

Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Thin layer of loamy alluvium underlain by stratified sandy and gravelly

outwash Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.9 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw1—3 to 15 inches; sandy loam 2Bw2—15 to 31 inches; loamy sand

2Bw3-31 to 36 inches; gravelly loamy sand

2C-36 to 60 inches; stratified sand to very gravelly coarse sand

Rosholt and similar soils

Extent: 25 to 65 percent of the mapped areas

Geomorphic setting: Outwash plains; stream terraces

Position on the landform: Summits

Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.7 percent

Typical profile:

Ap—0 to 8 inches; sandy loam E—8 to 10 inches; sandy loam B/E—10 to 14 inches; sandy loam Bt—14 to 28 inches; sandy loam

2Bt—28 to 34 inches; gravelly loamy sand

2C-34 to 60 inches; stratified sand to very gravelly coarse sand

380C—Cress-Rosholt complex, 6 to 12 percent slopes

Component Description

Cress and similar soils

Extent: 35 to 75 percent of the mapped areas

Geomorphic setting: Outwash plains; stream terraces

Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Thin layer of loamy alluvium underlain by stratified sandy and gravelly

outwash Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.9 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw1—3 to 15 inches; sandy loam 2Bw2—15 to 31 inches; loamy sand

2Bw3—31 to 36 inches; gravelly loamy sand

2C-36 to 60 inches; stratified sand to very gravelly coarse sand

Rosholt and similar soils

Extent: 20 to 60 percent of the mapped areas

Geomorphic setting: Outwash plains; stream terraces Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.7 percent

Typical profile:

Ap—0 to 8 inches; sandy loam E—8 to 10 inches; sandy loam B/E—10 to 14 inches; sandy loam Bt—14 to 28 inches; sandy loam

2Bt—28 to 34 inches; gravelly loamy sand

2C-34 to 60 inches; stratified sand to very gravelly coarse sand

380D—Cress-Rosholt complex, 12 to 25 percent slopes

Component Description

Cress and similar soils

Extent: 35 to 75 percent of the mapped areas

Geomorphic setting: Outwash plains; stream terraces Position on the landform: Shoulders and backslopes

Slope range: 12 to 25 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Thin layer of loamy alluvium underlain by stratified sandy and gravelly

outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.9 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw1—3 to 15 inches; sandy loam 2Bw2—15 to 31 inches; loamy sand

2Bw3—31 to 36 inches; gravelly loamy sand

2C-36 to 60 inches; stratified sand to very gravelly coarse sand

Rosholt and similar soils

Extent: 20 to 60 percent of the mapped areas

Geomorphic setting: Outwash plains; stream terraces Position on the landform: Backslopes and shoulders

Slope range: 12 to 25 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.7 percent

Typical profile:

Ap—0 to 8 inches; sandy loam E—8 to 10 inches; sandy loam B/E—10 to 14 inches; sandy loam Bt—14 to 28 inches; sandy loam

2Bt-28 to 34 inches; gravelly loamy sand

2C—34 to 60 inches; stratified sand to very gravelly coarse sand

383B—Mahtomedi loamy sand, 0 to 6 percent slopes

Component Description

Mahtomedi and similar soils

Extent: 55 to 100 percent of the mapped areas Geomorphic setting: Stream terraces; outwash plains

Position on the landform: Summits

Slope range: 0 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.7 inches Content of organic matter in the upper 10 inches: 0.5 percent

Typical profile:

A—0 to 5 inches; loamy sand

E-5 to 8 inches: sand

Bw1—8 to 15 inches; gravelly coarse sand Bw2—15 to 30 inches; gravelly sand C—30 to 60 inches; gravelly sand

383C—Mahtomedi loamy sand, 6 to 12 percent slopes

Component Description

Mahtomedi and similar soils

Extent: 55 to 100 percent of the mapped areas Geomorphic setting: Stream terraces; outwash plains Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.7 inches Content of organic matter in the upper 10 inches: 0.5 percent

Typical profile:

A—0 to 5 inches; loamy sand

E-5 to 8 inches; sand

Bw1—8 to 15 inches; gravelly coarse sand Bw2—15 to 30 inches; gravelly sand C—30 to 60 inches; gravelly sand

383D—Mahtomedi loamy sand, 12 to 30 percent slopes

Component Description

Mahtomedi and similar soils

Extent: 55 to 100 percent of the mapped areas Geomorphic setting: Stream terraces; outwash plains Position on the landform: Shoulders and backslopes

Slope range: 12 to 30 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.7 inches Content of organic matter in the upper 10 inches: 0.5 percent

Typical profile:

A—0 to 5 inches; loamy sand

E-5 to 8 inches; sand

Bw1-8 to 15 inches; gravelly coarse sand

Bw2—15 to 30 inches; gravelly sand

C-30 to 60 inches; gravelly sand

392C—Rockmarsh-Dairyland-Makwa, seeped, complex, 2 to 20 percent slopes, very stony

Component Description

Rockmarsh and similar soils

Extent: 20 to 50 percent of the mapped areas

Geomorphic setting: Stream terraces Position on the landform: Backslopes

Slope range: 2 to 20 percent

Texture of the surface layer: Cobbly mucky peat

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Somewhat poorly drained

Parent material: Loamy-skeletal alluvium over dense loamy till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 5.3 inches Content of organic matter in the upper 10 inches: 10.1 percent Typical profile:

Oe—0 to 1 inch; cobbly mucky peat A—1 to 8 inches; very cobbly silt loam

2Bw—8 to 23 inches; extremely gravelly loamy coarse sand 3Bt—23 to 46 inches; extremely gravelly sandy clay loam 3Cd—46 to 80 inches; extremely cobbly sandy loam

Dairyland and similar soils

Extent: 20 to 40 percent of the mapped areas

Geomorphic setting: Stream terraces Position on the landform: Backslopes

Slope range: 2 to 20 percent

Texture of the surface layer: Cobbly sandy loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy-skeletal alluvium over dense loamy till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 3.9 inches Content of organic matter in the upper 10 inches: 1.1 percent Typical profile:

Oe—0 to 1 inch; moderately decomposed plant material

A—1 to 7 inches; cobbly sandy loam

Bw—7 to 14 inches; very gravelly loamy sand Bt1—14 to 36 inches; very gravelly loamy sand Bt2—36 to 49 inches; extremely gravelly loamy sand

2Cd—49 to 80 inches; sandy loam

Makwa and similar soils

Extent: 15 to 30 percent of the mapped areas

Geomorphic setting: Stream terraces Position on the landform: Backslopes

Slope range: 2 to 12 percent

Texture of the surface layer: Stony muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Skeletal loamy alluvium over silty and clayey glaciolacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, November)

Deepest depth to wet zone: 2.5 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 6.6 inches Content of organic matter in the upper 10 inches: 71.8 percent

Typical profile:

Oa—0 to 8 inches; stony muck A—8 to 16 inches; very gravelly loam

Bw—16 to 43 inches; stratified extremely gravelly coarse sandy loam to extremely

gravelly sandy clay loam

Cg—43 to 65 inches; extremely gravelly sandy loam 2C—65 to 80 inches; stratified silt loam to silty clay

396B—Friendship-Wurtsmith-Grayling complex, 0 to 6 percent slopes

Component Description

Friendship and similar soils

Extent: 20 to 60 percent of the mapped areas

Geomorphic setting: Outwash plains Position on the landform: Footslopes

Slope range: 0 to 3 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Sandy eolian deposits

Flooding: None

Shallowest depth to wet zone: 4.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August,

September, October, November, December)

Pondina: None

Available water capacity to a depth of 60 inches: 3.6 inches Content of organic matter in the upper 10 inches: 0.7 percent

Typical profile:

A—0 to 4 inches; sand Bw—4 to 29 inches; sand C—29 to 60 inches; sand

Wurtsmith and similar soils

Extent: 20 to 55 percent of the mapped areas

Geomorphic setting: Outwash plains Position on the landform: Footslopes

Slope range: 0 to 3 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Sandy eolian deposits

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: 5.0 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 3.7 inches Content of organic matter in the upper 10 inches: 2.2 percent

Typical profile:

A—0 to 6 inches; sand Bw—6 to 33 inches; sand C—33 to 60 inches; sand

Grayling and similar soils

Extent: 15 to 35 percent of the mapped areas

Geomorphic setting: Outwash plains Position on the landform: Summits Slope range: 1 to 6 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy eolian deposits

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.8 inches Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

A—0 to 3 inches; sand Bw—3 to 15 inches; sand BC—15 to 23 inches; sand C—23 to 60 inches; sand

397A—Perchlake loamy fine sand, 0 to 2 percent slopes

Component Description

Perchlake and similar soils

Extent: 65 to 100 percent of the mapped areas Geomorphic setting: Lake plains; outwash plains

Position on the landform: Footslopes

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.0 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 4.9 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap—0 to 9 inches; loamy fine sand Bw—9 to 18 inches; fine sand

E&Bt—18 to 42 inches; sand, loamy sand 2Btg—42 to 46 inches; fine sandy loam

3C-46 to 60 inches; sand

399B—Grayling sand, 0 to 6 percent slopes

Component Description

Grayling and similar soils

Extent: 85 to 100 percent of the mapped areas

Geomorphic setting: Outwash plains Position on the landform: Summits Slope range: 0 to 6 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy eolian deposits

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.8 inches Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

A—0 to 3 inches; sand Bw—3 to 15 inches; sand BC—15 to 23 inches; sand C—23 to 60 inches; sand

399C—Grayling sand, 6 to 12 percent slopes

Component Description

Grayling and similar soils

Extent: 93 to 100 percent of the mapped areas

Geomorphic setting: Outwash plains

Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy eolian deposits

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.8 inches Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

A—0 to 3 inches; sand Bw—3 to 15 inches; sand BC—15 to 23 inches; sand C—23 to 60 inches; sand

399D—Grayling sand, 12 to 30 percent slopes

Component Description

Grayling and similar soils

Extent: 93 to 100 percent of the mapped areas Geomorphic setting: Outwash plains

Position on the landform: Shoulders and backslopes

Slope range: 12 to 30 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy eolian deposits

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.8 inches Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

A—0 to 3 inches; sand Bw—3 to 15 inches; sand BC—15 to 23 inches; sand C—23 to 60 inches; sand

406A—Loxley mucky peat, 0 to 1 percent slopes

Component Description

Loxley and similar soils

Extent: 70 to 100 percent of the mapped areas

Geomorphic setting: Depressions on lake plains and outwash plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky peat

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material more than 51 inches thick

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, June, October, November)

Deepest depth to wet zone: 1.0 foot (January, February)

Months in which ponding does not occur: January, February, March, May, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April)

Available water capacity to a depth of 60 inches: 25.2 inches Content of organic matter in the upper 10 inches: 80.0 percent

Typical profile:

Oe—0 to 13 inches; mucky peat Oa—13 to 60 inches; muck

407A—Seelyeville and Markey soils, 0 to 1 percent slopes

Component Description

Seelyeville and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions on lake plains; drainageways and depressions on

outwash plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material more than 51 inches thick

Flooding: None

Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 23.9 inches Content of organic matter in the upper 10 inches: 62.0 percent

Typical profile:

Oa—0 to 80 inches; muck

Markey and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions on lake plains; drainageways and depressions on

outwash plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material 16 to 51 inches thick overlying sandy

deposits Flooding: None

Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November)

Available water capacity to a depth of 60 inches: 14.4 inches

Content of organic matter in the upper 10 inches: 70.0 percent

Typical profile:

Oa—0 to 32 inches; muck Cg—32 to 60 inches; sand

410A—Seelyeville and Cathro soils, 0 to 1 percent slopes

Component Description

Seelyeville and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions on lake plains; drainageways and depressions on

outwash plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material more than 51 inches thick

Flooding: None

Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 23.9 inches Content of organic matter in the upper 10 inches: 62.0 percent

Typical profile:

Oa-0 to 80 inches; muck

Cathro and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions and drainageways on disintegration moraines

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material 16 to 51 inches thick over loamy or silty

deposits Flooding: None

Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 16.6 inches Content of organic matter in the upper 10 inches: 72.5 percent

Typical profile:

Oa—0 to 28 inches; muck Cg1—28 to 49 inches; loam Cg2—49 to 60 inches; sandy loam

419A—Seelyeville, Cathro, and Markey soils, 0 to 1 percent slopes

Component Description

Seelyeville and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions on lake plains; drainageways and depressions on

outwash plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material more than 51 inches thick

Flooding: None

Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 23.9 inches Content of organic matter in the upper 10 inches: 62.0 percent

Typical profile:

Oa-0 to 80 inches; muck

Cathro and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions and drainageways on disintegration moraines

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material 16 to 51 inches thick over loamy or silty

deposits Flooding: None Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September, October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 16.6 inches Content of organic matter in the upper 10 inches: 72.5 percent

Typical profile:

Oa—0 to 28 inches; muck Cg1—28 to 49 inches; loam Cg2—49 to 60 inches; sandy loam

Markey and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions on lake plains; drainageways and depressions on outwash plains

Slope range: 0 to 1 percent
Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material 16 to 51 inches thick over sandy

deposits Flooding: None

Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 14.4 inches Content of organic matter in the upper 10 inches: 70.0 percent

Typical profile:

Oa—0 to 32 inches; muck Cg—32 to 60 inches; sand

421A—Dora, Markey, and Seelyeville soils, 0 to 1 percent slopes

Component Description

Dora and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions and drainageways on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky peat

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material 16 to 51 inches thick over clayey

material Flooding: None

Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 16.7 inches Content of organic matter in the upper 10 inches: 72.5 percent

Typical profile:

Oe—0 to 12 inches; mucky peat

Oa-12 to 32 inches; muck

A—32 to 36 inches; mucky silty clay loam Cg1—36 to 42 inches; silty clay loam Cg2,Cg3—42 to 60 inches; silty clay

Markey and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions on lake plains; drainageways and depressions on

outwash plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material 16 to 51 inches thick over sandy

deposits Flooding: None

Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 14.4 inches Content of organic matter in the upper 10 inches: 70.0 percent

Typical profile:

Oa—0 to 32 inches; muck Cg—32 to 60 inches; sand

Seelyeville and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions on lake plains; drainageways and depressions on

outwash plains

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material more than 51 inches thick

Flooding: None

Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 23.9 inches Content of organic matter in the upper 10 inches: 62.0 percent

Typical profile:
Oa—0 to 80 inches: muck

422A—Seelyeville, Cathro, and Rondeau soils, 0 to 1 percent slopes

Component Description

Seelyeville and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions on lake plains; drainageways and depressions on

outwash plains

Slope range: 0 to 1 percent

Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material more than 51 inches thick

Flooding: None

Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 23.9 inches Content of organic matter in the upper 10 inches: 62.0 percent

Typical profile:

Oa-0 to 80 inches; muck

Cathro and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions and drainageways on disintegration moraines

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material 16 to 51 inches thick over loamy or silty

deposits Flooding: None

Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 16.6 inches Content of organic matter in the upper 10 inches: 72.5 percent

Typical profile:

Oa—0 to 28 inches; muck Cg1—28 to 49 inches; loam Cg2—49 to 60 inches; sandy loam

Rondeau and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions and drainageways on moraines

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material 16 to 51 inches thick over limnic

materials (mostly marl)

Flooding: None

Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 21.8 inches Content of organic matter in the upper 10 inches: 62.0 percent

Typical profile:

Oa—0 to 44 inches; muck Cg—44 to 60 inches; marl

426B—Emmert-Mahtomedi-Menahga complex, 2 to 6 percent slopes

Component Description

Emmert and similar soils

Extent: 30 to 80 percent of the mapped areas

Geomorphic setting: Stream terraces; eskers; outwash plains

Position on the landform: Summits

Slope range: 2 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy-skeletal outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 1.9 inches Content of organic matter in the upper 10 inches: 0.2 percent

Typical profile:

A-0 to 1 inch; loamy sand

Bw—1 to 5 inches; gravelly loamy coarse sand BC—5 to 24 inches; very gravelly coarse sand C—24 to 60 inches; very gravelly coarse sand

Mahtomedi and similar soils

Extent: 20 to 60 percent of the mapped areas

Geomorphic setting: Stream terraces; outwash plains; eskers

Position on the landform: Summits

Slope range: 2 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.7 inches Content of organic matter in the upper 10 inches: 0.5 percent

Typical profile:

A—0 to 5 inches; loamy sand

E—5 to 8 inches; sand

Bw1-8 to 15 inches; gravelly coarse sand

Bw2—15 to 30 inches; gravelly sand

C-30 to 60 inches; gravelly sand

Menahga and similar soils

Extent: 15 to 40 percent of the mapped areas

Geomorphic setting: Outwash plains; eskers; stream terraces

Position on the landform: Summits

Slope range: 2 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.8 inches Content of organic matter in the upper 10 inches: 0.3 percent

Typical profile:

Oi—0 to 1 inch; slightly decomposed plant material

A—1 to 2 inches; loamy sand Bw—2 to 25 inches; sand C—25 to 80 inches; sand

426C—Emmert-Mahtomedi-Menahga complex, 6 to 12 percent slopes

Component Description

Emmert and similar soils

Extent: 30 to 80 percent of the mapped areas

Geomorphic setting: Stream terraces; eskers; outwash plains

Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy-skeletal outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 1.9 inches Content of organic matter in the upper 10 inches: 0.2 percent Typical profile:

A-0 to 1 inch; loamy sand

Bw—1 to 5 inches; gravelly loamy coarse sand BC—5 to 24 inches; very gravelly coarse sand C—24 to 60 inches; very gravelly coarse sand

Mahtomedi and similar soils

Extent: 20 to 60 percent of the mapped areas

Geomorphic setting: Eskers; stream terraces; outwash plains

Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.7 inches Content of organic matter in the upper 10 inches: 0.5 percent

Typical profile:

A-0 to 5 inches; loamy sand

E—5 to 8 inches; sand

Bw1-8 to 15 inches; gravelly coarse sand

Bw2—15 to 30 inches; gravelly sand

C-30 to 60 inches; gravelly sand

Menahga and similar soils

Extent: 15 to 20 percent of the mapped areas

Geomorphic setting: Stream terraces; eskers; outwash plains

Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.8 inches Content of organic matter in the upper 10 inches: 0.3 percent

Typical profile:

Oi—0 to 1 inch; slightly decomposed plant material

A—1 to 2 inches; loamy sand Bw—2 to 25 inches; sand C—25 to 80 inches; sand

426D—Emmert-Mahtomedi-Menahga complex, 12 to 30 percent slopes

Component Description

Emmert and similar soils

Extent: 30 to 80 percent of the mapped areas

Geomorphic setting: Eskers; outwash plains; stream terraces

Position on the landform: Shoulders and backslopes

Slope range: 12 to 30 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy-skeletal outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 1.9 inches Content of organic matter in the upper 10 inches: 0.2 percent

Typical profile:

A-0 to 1 inch; loamy sand

Bw—1 to 5 inches; gravelly loamy coarse sand BC—5 to 24 inches; very gravelly coarse sand C—24 to 60 inches; very gravelly coarse sand

Mahtomedi and similar soils

Extent: 20 to 60 percent of the mapped areas

Geomorphic setting: Eskers; stream terraces; outwash plains

Position on the landform: Shoulders and backslopes

Slope range: 12 to 30 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.7 inches Content of organic matter in the upper 10 inches: 0.5 percent

Typical profile:

A-0 to 5 inches; loamy sand

E-5 to 8 inches; sand

Bw1—8 to 15 inches; gravelly coarse sand Bw2—15 to 30 inches; gravelly sand C—30 to 60 inches; gravelly sand

Menahga and similar soils

Extent: 15 to 30 percent of the mapped areas

Geomorphic setting: Stream terraces; eskers; outwash plains

Position on the landform: Shoulders and backslopes

Slope range: 12 to 30 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.8 inches Content of organic matter in the upper 10 inches: 0.3 percent

Typical profile:

Oi—0 to 1 inch; slightly decomposed plant material

A—1 to 2 inches; loamy sand Bw—2 to 25 inches; sand C—25 to 80 inches; sand

430A—Freya loamy fine sand, 0 to 3 percent slopes

Component Description

Freya and similar soils

Extent: 50 to 90 percent of the mapped areas

Geomorphic setting: Lake plains Position on the landform: Footslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Sandy lacustrine deposits over clayey lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: More than 6.7 feet (July, August, September)

Ponding: None

Available water capacity to a depth of 60 inches: 5.2 inches Content of organic matter in the upper 10 inches: 1.5 percent

Typical profile:

Ap—0 to 11 inches; loamy fine sand Bw—11 to 32 inches; fine sand Bt—32 to 47 inches; loamy fine sand 2Btg1,2Btg2—47 to 66 inches; clay

2Btkg—66 to 72 inches; clay 2Cg—72 to 80 inches; clay

439B—Graycalm-Menahga complex, 0 to 6 percent slopes

Component Description

Graycalm and similar soils

Extent: 40 to 80 percent of the mapped areas

Geomorphic setting: Outwash plains Position on the landform: Summits Slope range: 0 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.9 inches Content of organic matter in the upper 10 inches: 0.6 percent

Typical profile:

A—0 to 3 inches; loamy sand Bw—3 to 22 inches; sand E—22 to 35 inches; sand

E&Bt-35 to 60 inches; stratified sand to loamy sand

Menahga and similar soils

Extent: 20 to 60 percent of the mapped areas

Geomorphic setting: Outwash plains Position on the landform: Summits Slope range: 0 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.8 inches Content of organic matter in the upper 10 inches: 0.3 percent

Typical profile:

Oi—0 to 1 inch; slightly decomposed plant material

A—1 to 2 inches; loamy sand Bw—2 to 25 inches; sand C—25 to 80 inches; sand

439C—Graycalm-Menahga complex, 6 to 12 percent slopes

Component Description

Graycalm and similar soils

Extent: 40 to 80 percent of the mapped areas Geomorphic setting: Outwash plains

Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.9 inches Content of organic matter in the upper 10 inches: 0.6 percent

Typical profile:

A—0 to 3 inches; loamy sand Bw—3 to 22 inches; sand E—22 to 35 inches; sand

E&Bt-35 to 60 inches; stratified sand to loamy sand

Menahga and similar soils

Extent: 20 to 60 percent of the mapped areas

Geomorphic setting: Outwash plains

Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.8 inches Content of organic matter in the upper 10 inches: 0.3 percent

Typical profile:

Oi—0 to 1 inch; slightly decomposed plant material

A—1 to 2 inches; loamy sand B—2 to 25 inches; sand C—25 to 80 inches; sand

439D—Graycalm-Menahga complex, 12 to 30 percent slopes

Component Description

Graycalm and similar soils

Extent: 40 to 80 percent of the mapped areas

Geomorphic setting: Outwash plains

Position on the landform: Shoulders and backslopes

Slope range: 12 to 30 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.9 inches

Content of organic matter in the upper 10 inches: 0.6 percent Typical profile:

A—0 to 3 inches; loamy sand Bw—3 to 22 inches; sand E—22 to 35 inches; sand

E&Bt—35 to 60 inches; stratified sand to loamy sand

Menahga and similar soils

Extent: 20 to 60 percent of the mapped areas

Geomorphic setting: Outwash plains

Position on the landform: Backslopes and shoulders

Slope range: 12 to 30 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.8 inches Content of organic matter in the upper 10 inches: 0.3 percent

Typical profile:

Oi—0 to 1 inch; slightly decomposed plant material

A—1 to 2 inches; loamy sand Bw—2 to 25 inches; sand C—25 to 80 inches; sand

442C—Haugen, very stony-Greenwood complex, 0 to 15 percent slopes

Component Description

Haugen and similar soils

Extent: 30 to 80 percent of the mapped areas Geomorphic setting: Disintegration moraines Position on the landform: Backslopes and shoulders

Slope range: 2 to 15 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 60 to 80 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy loam till or mudflow sediments

Flooding: None

Shallowest depth to wet zone: 2.0 feet (March, April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 6.5 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

A—0 to 4 inches; sandy loam Bw1—4 to 15 inches; sandy loam

Bw2—15 to 23 inches; gravelly sandy loam E/B—23 to 35 inches; gravelly sandy loam

B/E—35 to 49 inches; sandy loam

Bt—49 to 79 inches; gravelly sandy loam Cd—79 to 80 inches; gravelly sandy loam

Greenwood and similar soils

Extent: 15 to 35 percent of the mapped areas

Geomorphic setting: Depressions on disintegration moraines

Slope range: 0 to 2 percent Texture of the surface layer: Peat

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic deposits more than 51 inches thick

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, June, October, November)

Deepest depth to wet zone: 1.0 foot (January, February)

Months in which ponding does not occur: January, February, March, May, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April)

Available water capacity to a depth of 60 inches: 30.5 inches Content of organic matter in the upper 10 inches: 65.0 percent

Typical profile:

Oi—0 to 6 inches; peat

Oe—6 to 60 inches; mucky peat

443D—Amery, very stony-Greenwood complex, 0 to 35 percent slopes

Component Description

Amery and similar soils

Extent: 30 to 60 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Shoulders and backslopes

Slope range: 15 to 35 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 60 to 80 inches to dense material

Drainage class: Well drained

Parent material: Sandy loam till or mudflow sediments

Floodina: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 7.2 inches Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw—3 to 22 inches; sandy loam E/B—22 to 34 inches; sandy loam

B/E—34 to 41 inches; gravelly sandy loam Bt1—41 to 57 inches; gravelly sandy loam

Bt2—57 to 71 inches; sandy loam Cd—71 to 80 inches; sandy loam

Greenwood and similar soils

Extent: 15 to 40 percent of the mapped areas

Geomorphic setting: Depressions on disintegration moraines

Slope range: 0 to 2 percent

Texture of the surface layer: Peat

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic deposits more than 51 inches thick

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, June, October, November)

Deepest depth to wet zone: 1.0 foot (January, February)

Months in which ponding does not occur: January, February, March, May, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April)

Available water capacity to a depth of 60 inches: 30.5 inches Content of organic matter in the upper 10 inches: 65.0 percent

Typical profile:

Oi-0 to 6 inches; peat

Oe-6 to 60 inches; mucky peat

459A—Loxley, Daisybay, and Dawson soils, 0 to 1 percent slopes

Component Description

Loxley and similar soils

Extent: 0 to 100 percent of the mapped areas Geomorphic setting: Depressions on lake plains

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky peat

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material more than 51 inches thick

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, June, October, November)

Deepest depth to wet zone: 1.0 foot (January, February)

Months in which ponding does not occur: January, February, March, May, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April)

Available water capacity to a depth of 60 inches: 26.5 inches Content of organic matter in the upper 10 inches: 80.0 percent

Typical profile:

Oe—0 to 13 inches; mucky peat Oa—13 to 60 inches; muck

Daisybay and similar soils

Extent: 0 to 100 percent of the mapped areas Geomorphic setting: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Peat

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material 16 to 51 inches thick over clayey

deposits Flooding: None

Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September, October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 13.5 inches Content of organic matter in the upper 10 inches: 74.5 percent

Typical profile:
Oi—0 to 7 inches; peat

Oe—7 to 30 inches; mucky peat Oa—30 to 35 inches; muck Cq—35 to 80 inches; clay

Dawson and similar soils

Extent: 0 to 100 percent of the mapped areas Geomorphic setting: Depressions on lake plains

Slope range: 0 to 1 percent Texture of the surface layer: Peat

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material 16 to 51 inches thick over sandy deposits

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, June, October, November) Deepest depth to wet zone: 0.5 foot (January, February, March, July, August,

September, December)

Months in which ponding does not occur: January, February, March, May, June, July, August, September, October, November, December

Deepest ponding: 0.5 foot (April)

Available water capacity to a depth of 60 inches: 18.2 inches Content of organic matter in the upper 10 inches: 75.0 percent

Typical profile:

Oi—0 to 8 inches; peat Oa—8 to 38 inches; muck A—38 to 40 inches; silt loam 2C—40 to 60 inches; sand

461A—Bowstring muck, 0 to 1 percent slopes, frequently flooded

Component Description

Bowstring and similar soils

Extent: 75 to 100 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Highly decomposed organic material that has thin layers of sandy or

loamy material

Lowest frequency of flooding (if it occurs): Rare (January, February, July, August,

December)

Highest frequency of flooding: Frequent (April, May)

Shallowest depth to wet zone: At the surface (April, May, November)

Deepest depth to wet zone: 2.5 feet (February, August)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, December Deepest ponding: 0.5 foot (April, May, November)

Available water capacity to a depth of 60 inches: 21.1 inches Content of organic matter in the upper 10 inches: 80.0 percent

Typical profile:

Oa—0 to 38 inches; muck Cg—38 to 47 inches; fine sand O'a—47 to 80 inches; muck

465A—Newson-Meehan complex, 0 to 3 percent slopes

Component Description

Newson and similar soils

Extent: 30 to 80 percent of the mapped areas

Geomorphic setting: Depressions on outwash plains Slope range: 0 to 2 percent

Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained Parent material: Sandy eolian deposits

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, November)

Deepest depth to wet zone: 2.5 feet (February, August)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April, May)

Available water capacity to a depth of 60 inches: 5.6 inches Content of organic matter in the upper 10 inches: 25.0 percent

Typical profile:

Oa—0 to 3 inches; muck A—3 to 8 inches; loamy sand Bg—8 to 16 inches; sand BCg—16 to 22 inches; sand C—22 to 60 inches; sand

Meehan and similar soils

Extent: 20 to 50 percent of the mapped areas

Geomorphic setting: Outwash plains Position on the landform: Summits

Slope range: 1 to 3 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained Parent material: Sandy eolian deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.0 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 3.3 inches Content of organic matter in the upper 10 inches: 0.8 percent Typical profile:

A—0 to 4 inches; sand Bw—4 to 29 inches; sand C—29 to 60 inches; sand

469E—Bigisland-Milaca complex, 15 to 45 percent slopes, very stony

Component Description

Bigisland and similar soils

Extent: 30 to 70 percent of the mapped areas

Geomorphic setting: Stream terraces Position on the landform: Shoulders Slope range: 15 to 45 percent

Texture of the surface layer: Cobbly loamy sand

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Somewhat excessively drained

Parent material: Sandy-skeletal alluvium over dense loamy till

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.8 inches Content of organic matter in the upper 10 inches: 1.0 percent

Typical profile:

A—0 to 3 inches; cobbly loamy sand Bw—3 to 13 inches; very cobbly sand

Bt—13 to 25 inches; very gravelly loamy sand

B'w—25 to 47 inches; stratified gravelly sand to sand

B't—47 to 56 inches; extremely gravelly loamy coarse sand 2Cd—56 to 80 inches; extremely gravelly coarse sandy loam

Milaca and similar soils

Extent: 30 to 60 percent of the mapped areas

Geomorphic setting: Stream terraces

Position on the landform: Backslopes and shoulders

Slope range: 15 to 45 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Loamy deposits over dense loamy till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, June, July,

August, September, October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 6.8 inches Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

A—0 to 4 inches; sandy loam

E—4 to 13 inches; fine sandy loam B/E—13 to 17 inches; sandy loam Bt—17 to 43 inches; sandy loam BCd—43 to 80 inches; sandy loam

471B—Dairyland-Emmert complex, 0 to 6 percent slopes, very stony

Component Description

Dairyland and similar soils

Extent: 50 to 80 percent of the mapped areas

Geomorphic setting: Stream terraces Position on the landform: Summits Slope range: 0 to 6 percent

Texture of the surface layer: Cobbly sandy loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy-skeletal alluvium over dense loamy till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 3.9 inches Content of organic matter in the upper 10 inches: 1.1 percent Typical profile:

Oe—0 to 1 inch; moderately decomposed plant material

A-1 to 7 inches; cobbly sandy loam

Bw—7 to 14 inches; very gravelly loamy sand

Bt1—14 to 36 inches; very gravelly loamy sand

Bt2—36 to 49 inches; extremely gravelly loamy sand

2Cd—49 to 80 inches; sandy loam

Emmert and similar soils

Extent: 20 to 50 percent of the mapped areas

Geomorphic setting: Stream terraces Position on the landform: Summits Slope range: 1 to 6 percent

Texture of the surface layer: Gravelly coarse sandy loam Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy-skeletal outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 1.9 inches Content of organic matter in the upper 10 inches: 0.2 percent

Typical profile:

A—0 to 1 inch; gravelly coarse sandy loam Bw—1 to 5 inches; gravelly loamy coarse sand BC—5 to 24 inches; very gravelly coarse sand C—24 to 60 inches; very gravelly coarse sand

471C—Dairyland-Emmert complex, 6 to 15 percent slopes, very stony

Component Description

Dairyland and similar soils

Extent: 50 to 85 percent of the mapped areas

Geomorphic setting: Stream terraces Position on the landform: Backslopes

Slope range: 6 to 15 percent

Texture of the surface layer: Very cobbly loamy sand

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy-skeletal alluvium over dense loamy till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 3.9 inches Content of organic matter in the upper 10 inches: 1.1 percent Typical profile:

Oe—0 to 1 inch; moderately decomposed plant material

A—1 to 7 inches; very cobbly loamy sand Bw—7 to 14 inches; very gravelly loamy sand Bt1—14 to 36 inches; very gravelly loamy sand Bt2—36 to 49 inches; extremely gravelly loamy sand

2Cd-49 to 80 inches; sandy loam

Emmert and similar soils

Extent: 10 to 35 percent of the mapped areas

Geomorphic setting: Stream terraces Position on the landform: Backslopes

Slope range: 6 to 15 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy-skeletal outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 1.9 inches Content of organic matter in the upper 10 inches: 0.2 percent

Typical profile:

A-0 to 1 inch; loamy sand

Bw—1 to 5 inches; gravelly loamy coarse sand BC—5 to 24 inches; very gravelly coarse sand

C-24 to 60 inches; very gravelly coarse sand

472A—Rockmarsh-Clemens complex, 0 to 2 percent slopes, very stony, frequently flooded

Component Description

Rockmarsh and similar soils

Extent: 40 to 70 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 0 to 2 percent

Texture of the surface layer: Cobbly mucky peat

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Somewhat poorly drained

Parent material: Loamy-skeletal alluvium over dense loamy till

Lowest frequency of flooding (if it occurs): Rare (January, February, December)

Highest frequency of flooding: Frequent (April) Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 5.3 inches Content of organic matter in the upper 10 inches: 10.1 percent

Typical profile:

Oe—0 to 1 inch; cobbly mucky peat A—1 to 8 inches; very cobbly silt loam

2Bw—8 to 23 inches; extremely gravelly loamy coarse sand 3Bt—23 to 46 inches; extremely gravelly sandy clay loam 3Cd—46 to 80 inches; extremely cobbly sandy loam

Clemens and similar soils

Extent: 30 to 60 percent of the mapped areas Geomorphic setting: Flood plains; stream terraces

Slope range: 0 to 2 percent

Texture of the surface layer: Extremely gravelly loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Loamy-skeletal alluvium over sandy-skeletal alluvium Lowest frequency of flooding (if it occurs): Rare (January, February,

December)
Highest frequency of flooding: Frequent (April)

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.0 feet (September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 5.2 inches Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

Oa—0 to 2 inches; highly decomposed plant material

A—2 to 7 inches; extremely gravelly loam Bw1—7 to 10 inches; very gravelly loam

Bw2—10 to 13 inches; very gravelly coarse sandy loam Bt1—13 to 32 inches; very gravelly coarse sandy loam

Bt2—32 to 46 inches; extremely gravelly coarse sandy loam

2C-46 to 80 inches; extremely gravelly loamy coarse sand

473A—Dairyland-Skog complex, 0 to 3 percent slopes, very stony, rarely flooded

Component Description

Dairyland and similar soils

Extent: 40 to 60 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 0 to 3 percent

Texture of the surface layer: Cobbly sandy loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy-skeletal alluvium over dense loamy till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 3.9 inches Content of organic matter in the upper 10 inches: 1.1 percent Typical profile:

Oe—0 to 1 inch; moderately decomposed plant material

A—1 to 7 inches; cobbly sandy loam

Bw—7 to 14 inches; very gravelly loamy sand Bt1—14 to 36 inches; very gravelly loamy sand Bt2—36 to 49 inches; extremely gravelly loamy sand

2Cd—49 to 80 inches; sandy loam

Skog and similar soils

Extent: 25 to 50 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 0 to 3 percent

Texture of the surface layer: Gravelly sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Loamy alluvium over sandy-skeletal alluvium

Months in which flooding does not occur: January, February, March, May, June, July,

August, September, October, November, December

Highest frequency of flooding: Rare (April) Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 5.5 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 2.7 inches Content of organic matter in the upper 10 inches: 1.0 percent Typical profile:

Oa—0 to 1 inch; highly decomposed plant material

A—1 to 6 inches; gravelly sandy loam E—6 to 11 inches; gravelly sandy loam

Bt—11 to 27 inches; extremely gravelly loamy sand BC—27 to 38 inches; extremely gravelly coarse sand C-38 to 80 inches; extremely gravelly coarse sand

484A—Greenwood and Beseman soils, 0 to 1 percent slopes

Component Description

Greenwood and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions and drainageways on disintegration moraines

Slope range: 0 to 1 percent Texture of the surface layer: Peat

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Organic deposits more than 51 inches thick

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, June, October, November)

Deepest depth to wet zone: 1.0 foot (January, February)

Months in which ponding does not occur: January, February, March, May, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April)

Available water capacity to a depth of 60 inches: 30.5 inches Content of organic matter in the upper 10 inches: 65.0 percent

Typical profile:

Oi-0 to 6 inches; peat

Oe-6 to 60 inches; mucky peat

Beseman and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions and drainageways on disintegration moraines

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material 16 to 51 inches thick over loamy till

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, June, October, November)

Deepest depth to wet zone: 1.0 foot (January, February)

Months in which ponding does not occur: January, February, March, May, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April)

Available water capacity to a depth of 60 inches: 18.2 inches Content of organic matter in the upper 10 inches: 50.0 percent

Typical profile:

Oa—0 to 36 inches; muck Cg—36 to 60 inches; silt loam

485C—Lupton and Tawas soils, seeped, 2 to 15 percent slopes

Component Description

Lupton and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Outwash plains Position on the landform: Backslopes

Slope range: 2 to 15 percent

Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous and woody organic material more than 51 inches thick

Flooding: None

Wet zone: At the surface all year

Ponding: None

Available water capacity to a depth of 60 inches: 23.9 inches Content of organic matter in the upper 10 inches: 55.0 percent

Typical profile:

Oa-0 to 65 inches; muck

Tawas and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Outwash plains Position on the landform: Backslopes

Slope range: 2 to 15 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material 16 to 51 inches thick over sandy

deposits Flooding: None

Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 14.2 inches Content of organic matter in the upper 10 inches: 55.0 percent

Typical profile:

Oa—0 to 31 inches; muck Cg—31 to 60 inches; fine sand

495B—Karlsborg-Grettum-Perida complex, 1 to 6 percent slopes

Component Description

Karlsborg and similar soils

Extent: 30 to 60 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains

Position on the landform: Summits Slope range: 1 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Floodina: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches

Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap—0 to 9 inches; loamy sand Bw—9 to 28 inches; sand 2Bt—28 to 48 inches; clay 3C—48 to 80 inches; sand

Grettum and similar soils

Extent: 20 to 50 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains

Position on the landform: Summits

Slope range: 1 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Sandy outwash or lacustrine deposits with lamellae

Flooding: None

Shallowest depth to wet zone: 4.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

A—0 to 3 inches; loamy sand Bw—3 to 32 inches; sand E&Bt—32 to 75 inches; sand C—75 to 80 inches; sand

Perida and similar soils

Extent: 15 to 40 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains

Position on the landform: Summits Slope range: 1 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 3.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.8 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap—0 to 9 inches; loamy sand Bw1,Bw2,Bw3—9 to 43 inches; sand Bw4—43 to 45 inches; loamy sand 2Bt1—45 to 60 inches; clay 2Bt2—60 to 74 inches; silty clay 3C—74 to 80 inches; sand

495C—Karlsborg-Grettum-Perida complex, 6 to 12 percent slopes

Component Description

Karlsborg and similar soils

Extent: 25 to 60 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Floodina: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap—0 to 9 inches; loamy sand Bw—9 to 28 inches; sand 2Bt—28 to 48 inches; clay 3C—48 to 80 inches; sand

Grettum and similar soils

Extent: 20 to 50 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Sandy outwash or lacustrine deposits with lamellae

Flooding: None

Shallowest depth to wet zone: 4.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

A—0 to 3 inches; loamy sand Bw—3 to 32 inches; sand E&Bt—32 to 75 inches; sand C—75 to 80 inches; sand

Perida and similar soils

Extent: 15 to 40 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains

Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 3.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.8 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap—0 to 9 inches; loamy sand Bw1,Bw2,Bw3—9 to 43 inches; sand Bw4—43 to 45 inches; loamy sand 2Bt1—45 to 60 inches; clay 2Bt2—60 to 74 inches; silty clay 3C—74 to 80 inches; sand

495D—Karlsborg-Grettum-Perida complex, 12 to 30 percent slopes

Component Description

Karlsborg and similar soils

Extent: 30 to 50 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains Position on the landform: Shoulders and backslopes

Slope range: 12 to 30 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap—0 to 9 inches; loamy sand Bw—9 to 28 inches; sand 2Bt—28 to 48 inches; clay 3C—48 to 80 inches; sand

Grettum and similar soils

Extent: 20 to 40 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains Position on the landform: Backslopes and shoulders Slope range: 12 to 30 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Sandy outwash or lacustrine deposits with lamellae

Flooding: None

Shallowest depth to wet zone: 4.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August,

September, October, November, December)

Pondina: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

A—0 to 3 inches; loamy sand Bw—3 to 32 inches; sand E&Bt—32 to 75 inches; sand C—75 to 80 inches; sand

Perida and similar soils

Extent: 10 to 40 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains Position on the landform: Backslopes and shoulders

Slope range: 12 to 30 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 3.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.8 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap—0 to 9 inches; loamy sand Bw1,Bw2,Bw3—9 to 43 inches; sand Bw4—43 to 45 inches; loamy sand 2Bt1—45 to 60 inches; clay 2Bt2—60 to 74 inches; silty clay 3C—74 to 80 inches; sand

496B—Karlsborg loamy sand, 1 to 6 percent slopes

Component Description

Karlsborg and similar soils

Extent: 90 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains

Position on the landform: Summits

Slope range: 1 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap—0 to 9 inches; loamy sand Bw—9 to 28 inches; sand 2Bt—28 to 48 inches; clay 3C—48 to 80 inches; sand

496C—Karlsborg loamy sand, 6 to 12 percent slopes

Component Description

Karlsborg and similar soils

Extent: 90 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August, September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap—0 to 9 inches; loamy sand Bw—9 to 28 inches; sand 2Bt—28 to 48 inches; clay 3C—48 to 80 inches; sand

496D—Karlsborg loamy sand, 12 to 30 percent slopes

Component Description

Karlsborg and similar soils

Extent: 90 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains Position on the landform: Backslopes and shoulders

Slope range: 12 to 30 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap—0 to 9 inches; loamy sand Bw—9 to 28 inches; sand 2Bt—28 to 48 inches; clay 3C—48 to 80 inches; sand

497A—Meenon loamy sand, 0 to 3 percent slopes

Component Description

Meenon and similar soils

Extent: 60 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains

Position on the landform: Footslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Floodina: None

Shallowest depth to wet zone: 0.5 foot (April, May)

Deepest depth to wet zone: More than 6.7 feet (July, August, September)

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap—0 to 9 inches; loamy sand Bw—9 to 28 inches; sand 2Btg—28 to 41 inches; clay 3C—41 to 80 inches; sand

521A—Dody muck, 0 to 2 percent slopes

Component Description

Dody and similar soils

Extent: 70 to 100 percent of the mapped areas

Geomorphic setting: Drainageways and depressions on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, November, December)

Deepest depth to wet zone: 2.5 feet (August, September)

Months in which ponding does not occur: January, February, March, June, July,

August, September, December

Deepest ponding: 0.5 foot (April, May, October, November) Available water capacity to a depth of 60 inches: 5.8 inches

Content of organic matter in the upper 10 inches: 11.5 percent

Typical profile:

Oa—0 to 3 inches; muck Eg—3 to 9 inches; sand Bw—9 to 20 inches; fine sand Bg—20 to 23 inches; loamy sand 2Btg—23 to 47 inches; clay 3C1—47 to 58 inches; loamy sand

3C2-58 to 80 inches; sand

523A—Nokasippi muck, 0 to 1 percent slopes

Component Description

Nokasippi and similar soils

Extent: 80 to 100 percent of the mapped areas

Geomorphic setting: Depressions and drainageways on moraines

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: 30 to 50 inches to dense material

Drainage class: Very poorly drained

Parent material: Sandy outwash over dense loamy till

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, November)

Deepest depth to wet zone: More than 6.7 feet (August)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, December Deepest ponding: 0.5 foot (April, May, November)

Available water capacity to a depth of 60 inches: 6.5 inches

Content of organic matter in the upper 10 inches: 43.6 percent

Typical profile:

Oa—0 to 6 inches; muck

Eg-6 to 15 inches; loamy sand

2E—15 to 22 inches; very fine sandy loam

2Btg-22 to 31 inches; sandy clay loam

3BC—31 to 45 inches; gravelly loamy coarse sand

4Cd—45 to 60 inches; cobbly sandy loam

529B—Perida sand, 0 to 4 percent slopes

Component Description

Perida and similar soils

Extent: 60 to 100 percent of the mapped areas

Geomorphic setting: Lake plains Position on the landform: Summits Slope range: 0 to 4 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 3.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.6 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap-0 to 9 inches; sand

Bw1,Bw2,Bw3-9 to 43 inches; sand

Bw4—43 to 45 inches; sand 2Bt1—45 to 60 inches; clay 2Bt2—60 to 74 inches; silty clay 3C—74 to 80 inches; sand

531A—Stengel loamy sand, 0 to 3 percent slopes

Component Description

Stengel and similar soils

Extent: 60 to 90 percent of the mapped areas

Geomorphic setting: Lake plains Position on the landform: Footslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: 16 to 24 inches to abrupt textural change

Drainage class: Somewhat poorly drained

Parent material: Sandy outwash or sandy lacustrine deposits over clayey lacustrine

deposits underlain by sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April, May)

Deepest depth to wet zone: More than 6.7 feet (July, August, September)

Ponding: None

Available water capacity to a depth of 60 inches: 5.0 inches Content of organic matter in the upper 10 inches: 1.6 percent

Typical profile:

A—0 to 4 inches; loamy sand Bw1—4 to 20 inches; loamy sand

Bw2—20 to 46 inches; sand Bw3—46 to 50 inches; loamy sand 2Bt—50 to 76 inches; clay 3C—76 to 80 inches; sand

542B—Haugen, very stony-Haugen complex, 2 to 6 percent slopes

Component Description

Haugen, very stony, and similar soils

Extent: 5 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines Position on the landform: Footslopes and summits

Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 60 to 80 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy loam till or mudflow sediments

Flooding: None

Shallowest depth to wet zone: 2.0 feet (March, April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 6.5 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

A—0 to 4 inches; sandy loam Bw1—4 to 15 inches; sandy loam

Bw2—15 to 23 inches; gravelly sandy loam E/B—23 to 35 inches; gravelly sandy loam

B/E—35 to 49 inches; sandy loam

Bt—49 to 79 inches; gravelly sandy loam Cd—79 to 80 inches; gravelly sandy loam

Haugen and similar soils

Extent: 5 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines Position on the landform: Footslopes and summits

Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 60 to 80 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy loam till or mudflow sediments

Flooding: None

Shallowest depth to wet zone: 2.0 feet (March, April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 6.5 inches Content of organic matter in the upper 10 inches: 1.6 percent

Typical profile:

Ap—0 to 7 inches; sandy loam Bw1—7 to 15 inches; sandy loam

Bw2—15 to 23 inches; gravelly sandy loam

E/B-23 to 35 inches; gravelly sandy loam

B/E-35 to 49 inches; sandy loam

Bt—49 to 79 inches; gravelly sandy loam

Cd—79 to 80 inches; gravelly sandy loam

542C—Haugen, very stony-Haugen complex, 6 to 12 percent slopes

Component Description

Haugen, very stony, and similar soils

Extent: 5 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 60 to 80 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy loam till or mudflow sediments

Flooding: None

Shallowest depth to wet zone: 2.0 feet (March, April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 6.5 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

A—0 to 4 inches; sandy loam Bw1—4 to 15 inches; sandy loam

Bw2—15 to 23 inches; gravelly sandy loam E/B—23 to 35 inches; gravelly sandy loam

B/E-35 to 49 inches; sandy loam

Bt—49 to 79 inches; gravelly sandy loam Cd—79 to 80 inches; gravelly sandy loam

Haugen and similar soils

Extent: 5 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 60 to 80 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy loam till or mudflow sediments

Flooding: None

Shallowest depth to wet zone: 2.0 feet (March, April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 6.5 inches Content of organic matter in the upper 10 inches: 1.6 percent

Typical profile:

Ap—0 to 7 inches; sandy loam Bw1—7 to 15 inches; sandy loam

Bw2—15 to 23 inches; gravelly sandy loam

E/B—23 to 35 inches; gravelly sandy loam

B/E-35 to 49 inches; sandy loam

Bt—49 to 79 inches; gravelly sandy loam Cd—79 to 80 inches; gravelly sandy loam

544F—Menahga and Mahtomedi soils, 30 to 45 percent slopes

Component Description

Menahga and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Stream terraces; outwash plains Position on the landform: Shoulders and backslopes

Slope range: 30 to 45 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.8 inches Content of organic matter in the upper 10 inches: 0.3 percent

Typical profile:

Oi—0 to 1 inch; slightly decomposed plant material

A—1 to 2 inches; sand Bw—2 to 25 inches; sand C—25 to 80 inches; sand

Mahtomedi and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Stream terraces; outwash plains Position on the landform: Backslopes and shoulders

Slope range: 30 to 45 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.7 inches Content of organic matter in the upper 10 inches: 0.5 percent

Typical profile:

A-0 to 5 inches; loamy sand

E-5 to 8 inches; sand

Bw1-8 to 15 inches; gravelly coarse sand

Bw2—15 to 30 inches; gravelly sand C—30 to 60 inches; gravelly sand

553B—Branstad fine sandy loam, 2 to 6 percent slopes

Component Description

Branstad and similar soils

Extent: 90 to 100 percent of the mapped areas

Geomorphic setting: Moraines
Position on the landform: Summits
Slope range: 2 to 6 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Loamy calcareous till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April, May)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, August,

September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 9.8 inches Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam E—9 to 14 inches; fine sandy loam E/B—14 to 20 inches; fine sandy loam B/E—20 to 45 inches; sandy clay loam Bt1—45 to 55 inches; sandy clay loam Bt2—55 to 68 inches; fine sandy loam Btk—68 to 80 inches; fine sandy loam

553C—Branstad fine sandy loam, 6 to 12 percent slopes

Component Description

Branstad and similar soils

Extent: 80 to 100 percent of the mapped areas

Geomorphic setting: Moraines

Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Loamy calcareous till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April, May)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, August,

September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 9.8 inches Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam E—9 to 14 inches; fine sandy loam E/B—14 to 20 inches; fine sandy loam B/E—20 to 45 inches; sandy clay loam Bt1—45 to 55 inches; sandy clay loam

Bt2—55 to 68 inches; fine sandy loam Btk—68 to 80 inches; fine sandy loam

553D—Branstad fine sandy loam, 12 to 20 percent slopes

Component Description

Branstad and similar soils

Extent: 85 to 100 percent of the mapped areas

Geomorphic setting: Moraines

Position on the landform: Shoulders and backslopes

Slope range: 12 to 20 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Loamy calcareous till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April, May)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, August,

September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 9.8 inches Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

Ap—0 to 9 inches; fine sandy loam E—9 to 14 inches; fine sandy loam E/B—14 to 20 inches; fine sandy loam B/E—20 to 45 inches; sandy clay loam Bt1—45 to 55 inches; sandy clay loam Bt2—55 to 68 inches; fine sandy loam Btk—68 to 80 inches; fine sandy loam

555A—Fordum silt loam, 0 to 2 percent slopes, frequently flooded

Component Description

Fordum and similar soils

Extent: 75 to 100 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 0 to 2 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Silty or loamy alluvium underlain by sandy and gravelly alluvium Lowest frequency of flooding (if it occurs): Rare (January, February, July, August,

December)

Highest frequency of flooding: Frequent (April, May)

Shallowest depth to wet zone: At the surface (April, May, November)

Deepest depth to wet zone: 2.5 feet (February, August)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April, May)

Available water capacity to a depth of 60 inches: 7.2 inches

Content of organic matter in the upper 10 inches: 7.4 percent Typical profile:

A—0 to 6 inches; silt loam Cg1—6 to 18 inches; silt loam

Cg2—18 to 30 inches; fine sandy loam

2Cg—30 to 60 inches; sand

557B—Shawano fine sand, 0 to 6 percent slopes

Component Description

Shawano and similar soils

Extent: 90 to 100 percent of the mapped areas

Geomorphic setting: Outwash plains Position on the landform: Summits Slope range: 0 to 6 percent

Texture of the surface layer: Fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy eolian deposits

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.4 inches Content of organic matter in the upper 10 inches: 0.3 percent

Typical profile:

A—0 to 2 inches; fine sand BA—2 to 4 inches; fine sand Bw—4 to 26 inches; fine sand C—26 to 60 inches; fine sand

557C—Shawano fine sand, 6 to 12 percent slopes

Component Description

Shawano and similar soils

Extent: 90 to 100 percent of the mapped areas

Geomorphic setting: Outwash plains

Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy eolian deposits

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.4 inches Content of organic matter in the upper 10 inches: 0.3 percent

Typical profile:

A—0 to 2 inches; fine sand BA—2 to 4 inches; fine sand Bw—4 to 26 inches; fine sand C—26 to 60 inches; fine sand

557D—Shawano fine sand, 12 to 30 percent slopes

Component Description

Shawano and similar soils

Extent: 90 to 100 percent of the mapped areas

Geomorphic setting: Outwash plains

Position on the landform: Backslopes and shoulders

Slope range: 12 to 30 percent

Texture of the surface layer: Fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy eolian deposits

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.4 inches Content of organic matter in the upper 10 inches: 0.3 percent

Typical profile:

A—0 to 2 inches; fine sand BA—2 to 4 inches; fine sand Bw—4 to 26 inches; fine sand C—26 to 60 inches; fine sand

586A—Chelmo sandy loam, 0 to 2 percent slopes

Component Description

Chelmo and similar soils

Extent: 85 to 100 percent of the mapped areas

Geomorphic setting: Depressions on lake plains and outwash plains

Slope range: 0 to 2 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Clayey lacustrine deposits underlain by sandy outwash or sandy

lacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, November)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 5.5 inches Content of organic matter in the upper 10 inches: 2.3 percent Typical profile:

Ap—0 to 9 inches; sandy loam Btg—9 to 24 inches; clay

2Cg—24 to 34 inches; stratified loamy sand to sand to sandy loam

3C-34 to 80 inches; sand

600A—Haplosaprists and Psammaquents, 0 to 2 percent slopes

Component Description

Haplosaprists and similar soils

Extent: 0 to 100 percent of the mapped areas

Slope range: 0 to 1 percent

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Flooding: None

Wet zone: At the surface all year Ponding depth: 1.0 foot all year

General description: This component consists of areas where very poorly drained organic soils are altered for use as cranberry beds. The alterations include excavating the organic material, filling with sand, and constructing ditches and

dikes.

Psammaquents and similar soils

Extent: 0 to 100 percent of the mapped areas

Slope range: 0 to 2 percent

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Flooding: None

Wet zone: At the surface all year Ponding depth: 1.0 foot all year

General description: This component consists of areas where poorly drained and very poorly drained sandy soils are altered for use as cranberry beds. The alterations include land leveling and constructing ditches and dikes.

615B—Cress sandy loam, 0 to 6 percent slopes

Component Description

Cress and similar soils

Extent: 55 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; stream terraces

Position on the landform: Summits Slope range: 0 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.9 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw1—3 to 15 inches; sandy loam 2Bw2—15 to 31 inches; loamy sand

2Bw3—31 to 36 inches; gravelly loamy sand

2C-36 to 60 inches; stratified sand to very gravelly coarse sand

615C—Cress sandy loam, 6 to 12 percent slopes

Component Description

Cress and similar soils

Extent: 55 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; stream terraces Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.9 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw1—3 to 15 inches; sandy loam 2Bw2—15 to 31 inches; loamy sand

2Bw3—31 to 36 inches; gravelly loamy sand

2C-36 to 60 inches; stratified sand to very gravelly coarse sand

615D—Cress sandy loam, 12 to 30 percent slopes

Component Description

Cress and similar soils

Extent: 55 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; stream terraces Position on the landform: Backslopes and shoulders

Slope range: 12 to 30 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Loamy alluvium underlain by stratified sandy and gravelly outwash

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.9 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw1—3 to 15 inches; sandy loam 2Bw2—15 to 31 inches; loamy sand

2Bw3-31 to 36 inches; gravelly loamy sand

2C—36 to 60 inches; stratified sand to very gravelly coarse sand

620C—Lundeen-Haustrup-Rock outcrop complex, 2 to 12 percent slopes, very stony

Component Description

Lundeen and similar soils

Extent: 15 to 70 percent of the mapped areas

Geomorphic setting: Knobs

Position on the landform: Shoulders and backslopes

Slope range: 2 to 12 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Drainage class: Well drained

Parent material: Eolian deposits over basalt bedrock

Floodina: None

Depth to wet zone: More than 2.5 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 7.3 inches Content of organic matter in the upper 10 inches: 1.7 percent

Typical profile:

A1—0 to 3 inches; silt loam A2—3 to 16 inches; silt loam Bw—16 to 33 inches; silt loam 2R—33 to 80 inches; bedrock

Haustrup and similar soils

Extent: 10 to 50 percent of the mapped areas

Geomorphic setting: Knobs

Position on the landform: Backslopes and shoulders

Slope range: 2 to 12 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Drainage class: Somewhat excessively drained Parent material: Loess over basalt bedrock

Flooding: None

Depth to wet zone: More than 1.0 foot all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.7 inches Content of organic matter in the upper 10 inches: 1.7 percent

Typical profile:

A1—0 to 4 inches; silt loam A2—4 to 16 inches; silt loam 2R—16 to 80 inches; bedrock

Rock outcrop

Extent: 15 to 30 percent of the mapped areas

Slope range: 2 to 12 percent

621A—Bjorkland peat, 0 to 2 percent slopes

Component Description

Bjorkland and similar soils

Extent: 60 to 100 percent of the mapped areas

Geomorphic setting: Depressions and drainageways on lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Peat

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Sandy lacustrine deposits over clayey lacustrine deposits

Flooding: None

Wet zone: At the surface all year

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 8.4 inches Content of organic matter in the upper 10 inches: 48.5 percent

Typical profile:

Oi—0 to 2 inches; peat
Oa—2 to 8 inches; muck
A—8 to 14 inches; fine sand
Eg—14 to 25 inches; fine sand
Bt—25 to 34 inches; loamy fine sand

2Btg—34 to 38 inches; clay 2Bkg—38 to 80 inches; clay

623A—Capitola muck, 0 to 2 percent slopes, very stony

Component Description

Capitola and similar soils

Extent: 65 to 100 percent of the mapped areas

Geomorphic setting: Depressions and drainageways on moraines

Slope range: 0 to 2 percent Texture of the surface layer: Muck

Depth to restrictive feature: 20 to 40 inches to dense material

Drainage class: Very poorly drained

Parent material: Silty or loamy alluvium underlain by dense loamy till

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, November)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April, May)

Available water capacity to a depth of 60 inches: 7.5 inches Content of organic matter in the upper 10 inches: 35.3 percent

Typical profile:

Oa—0 to 5 inches; muck A—5 to 7 inches; silt loam Bg—7 to 22 inches; silt loam 2Btg—22 to 33 inches; sandy loam 2Cd—33 to 60 inches; sandy loam

624A—Ossmer silt loam, 0 to 3 percent slopes

Component Description

Ossmer and similar soils

Extent: 70 to 100 percent of the mapped areas

Geomorphic setting: Outwash plains; stream terraces

Position on the landform: Footslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Loess or silty alluvium underlain by sandy and gravelly outwash

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.0 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 7.9 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

A—0 to 4 inches; silt loam
E—4 to 6 inches; silt loam
E/B—6 to 11 inches; silt loam
B/E—11 to 26 inches; silt loam
2Bt1—26 to 34 inches; loam
2Bt2—34 to 38 inches; sandy loam

3C—38 to 60 inches; stratified sand to very gravelly coarse sand

631A—Giese muck, 0 to 1 percent slopes, very stony

Component Description

Giese and similar soils

Extent: 80 to 95 percent of the mapped areas

Geomorphic setting: Depressions and drainageways on moraines

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: 40 to 80 inches to dense material

Drainage class: Very poorly drained

Parent material: Mostly silty alluvium or loamy alluvium over dense loamy till

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, November)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Months in which ponding does not occur: January, February, July, August, September,

October, December

Deepest ponding: 0.5 foot (March, April, May, June, November) Available water capacity to a depth of 60 inches: 9.1 inches Content of organic matter in the upper 10 inches: 11.2 percent Typical profile:

Oa—0 to 1 inch; muck A—1 to 6 inches; silt loam Eg—6 to 11 inches; silt loam

Bg1—11 to 24 inches; silt loam Bg2—24 to 30 inches; loam

2Bw—30 to 36 inches; fine sandy loam 2BC—36 to 70 inches; fine sandy loam

2Cd-70 to 80 inches; fine sandy loam

632A—Aftad fine sandy loam, 0 to 2 percent slopes

Component Description

Aftad and similar soils

Extent: 70 to 100 percent of the mapped areas Geomorphic setting: Lake plains; stream terraces

Position on the landform: Summits Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mostly loamy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, August,

September, October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 9.3 inches Content of organic matter in the upper 10 inches: 2.0 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam E/B—10 to 29 inches; fine sandy loam B/E—29 to 36 inches; fine sandy loam Bt—36 to 41 inches; fine sandy loam

C-41 to 60 inches; stratified fine sand to silt

632B—Aftad fine sandy loam, 2 to 6 percent slopes

Component Description

Aftad and similar soils

Extent: 75 to 100 percent of the mapped areas Geomorphic setting: Lake plains; stream terraces

Position on the landform: Summits Slope range: 2 to 6 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mostly loamy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, August,

September, October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 9.3 inches Content of organic matter in the upper 10 inches: 2.0 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam E/B—10 to 29 inches; fine sandy loam B/E—29 to 36 inches; fine sandy loam Bt—36 to 41 inches; fine sandy loam

C-41 to 60 inches; stratified fine sand to silt

632C—Aftad fine sandy loam, 6 to 12 percent slopes

Component Description

Aftad and similar soils

Extent: 75 to 100 percent of the mapped areas Geomorphic setting: Lake plains; stream terraces Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mostly loamy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 9.3 inches Content of organic matter in the upper 10 inches: 2.0 percent

Typical profile:

Ap—0 to 10 inches; fine sandy loam E/B—10 to 29 inches; fine sandy loam B/E—29 to 36 inches; fine sandy loam Bt—36 to 41 inches; fine sandy loam

C-41 to 60 inches; stratified fine sand to silt

634C—Drylanding-Beartree complex, 0 to 12 percent slopes, rocky

Component Description

Drylanding and similar soils

Extent: 45 to 95 percent of the mapped areas

Geomorphic setting: Strath terraces

Position on the landform: Shoulders and backslopes

Slope range: 2 to 12 percent

Texture of the surface layer: Channery silt loam

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Drainage class: Somewhat excessively drained

Parent material: Loamy alluvium over mudstone bedrock

Flooding: None

Depth to wet zone: More than 1.0 foot all year

Ponding: None

Available water capacity to a depth of 60 inches: 1.4 inches Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

A—0 to 4 inches; channery silt loam Bw—4 to 12 inches; very channery silt loam

2R-12 to 80 inches; bedrock

Beartree and similar soils

Extent: 10 to 30 percent of the mapped areas Geomorphic setting: Depressions on strath terraces

Slope range: 0 to 2 percent

Texture of the surface layer: Muck

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Drainage class: Very poorly drained

Parent material: Loamy alluvium over siltstone bedrock

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, October, November,

December)

Deepest depth to wet zone: More than 1.5 feet (January, February, August,

September)

Months in which ponding does not occur: January, February, June, July, August,

September, November, December

Deepest ponding: 1.0 foot (March, April, May)

Available water capacity to a depth of 60 inches: 2.4 inches Content of organic matter in the upper 10 inches: 12.8 percent

Typical profile:

Oa—0 to 1 inch; muck

A1—1 to 4 inches; channery silt loam

A2—4 to 16 inches; extremely channery silt loam

2R—16 to 80 inches; bedrock

Rock outcrop

Extent: 1 to 10 percent of the mapped areas

Slope range: 2 to 12 percent

635C—Drylanding-Beartree complex, 0 to 12 percent slopes, rocky, rarely flooded

Component Description

Drylanding and similar soils

Extent: 55 to 85 percent of the mapped areas

Geomorphic setting: Strath terraces

Position on the landform: Backslopes and shoulders

Slope range: 2 to 12 percent

Texture of the surface layer: Channery silt loam

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Drainage class: Somewhat excessively drained

Parent material: Loamy alluvium over mudstone bedrock

Months in which flooding does not occur: January, February, June, July, August,

September, October, November, December

Highest frequency of flooding: Rare (March, April, May)

Depth to wet zone: More than 1.0 foot all year

Ponding: None

Available water capacity to a depth of 60 inches: 1.4 inches Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

A-0 to 4 inches; channery silt loam

Bw-4 to 12 inches; very channery silt loam

2R—12 to 80 inches; bedrock

Beartree and similar soils

Extent: 15 to 35 percent of the mapped areas Geomorphic setting: Depressions on strath terraces

Slope range: 0 to 2 percent

Texture of the surface layer: Muck

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Drainage class: Very poorly drained

Parent material: Loamy alluvium over siltstone bedrock

Months in which flooding does not occur: January, February, July, August, September,

October, November, December

Highest frequency of flooding: Rare (March, April, May, June)

Shallowest depth to wet zone: At the surface (April, May, October, November,

December)

Deepest depth to wet zone: More than 1.5 feet (January, February, August,

September)

Months in which ponding does not occur: January, February, June, July, August,

September, November, December

Deepest ponding: 1.0 foot (March, April, May)

Available water capacity to a depth of 60 inches: 2.4 inches Content of organic matter in the upper 10 inches: 12.8 percent

Typical profile:

Oa—0 to 1 inch; muck

A1—1 to 4 inches; channery silt loam

A2—4 to 16 inches; extremely channery silt loam

2R—16 to 80 inches; bedrock

Rock outcrop

Extent: 1 to 10 percent of the mapped areas

Slope range: 2 to 12 percent

648B—Sconsin silt loam, 1 to 6 percent slopes

Component Description

Sconsin and similar soils

Extent: 65 to 100 percent of the mapped areas

Geomorphic setting: Outwash terraces; stream terraces; outwash plains

Position on the landform: Summits Slope range: 1 to 6 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: 20 to 38 inches to dense material

Drainage class: Moderately well drained

Parent material: Loess or silty alluvium underlain by sandy and gravelly outwash

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, May, June,

July, August, September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 7.9 inches Content of organic matter in the upper 10 inches: 1.5 percent Typical profile:

A-0 to 4 inches: silt loam

E-4 to 5 inches: silt loam Bw-5 to 10 inches; silt loam

E'-10 to 18 inches: silt loam

E/B—18 to 27 inches; silt loam

2B/E-27 to 34 inches; loam

2BCd—34 to 38 inches; sandy loam 3C—38 to 60 inches; stratified sand to very gravelly coarse sand

669D—Fremstadt, stony-Pomroy complex, 15 to 30 percent slopes

Component Description

Fremstadt, stony, and similar soils

Extent: 20 to 80 percent of the mapped areas

Geomorphic setting: Moraines

Position on the landform: Shoulders and backslopes

Slope range: 15 to 30 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Sandy till or sandy mudflow sediments

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 5.3 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

A—0 to 5 inches; loamy sand Bw—5 to 33 inches; loamy sand B/E1—33 to 37 inches; sandy loam B/E2—37 to 45 inches; loamy sand BC—45 to 70 inches; loamy sand C—70 to 80 inches; loamy sand

Pomroy and similar soils

Extent: 20 to 60 percent of the mapped areas

Geomorphic setting: Moraines

Position on the landform: Backslopes and shoulders

Slope range: 15 to 30 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy outwash over loamy till over dense loamy till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 6.6 inches Content of organic matter in the upper 10 inches: 0.4 percent Typical profile:

A—0 to 3 inches; loamy sand Bw—3 to 30 inches; loamy sand 2Bt—30 to 45 inches; sandy loam 2BCd—45 to 80 inches; sandy loam

671B—Spoonerhill, stony-Spoonerhill complex, 2 to 6 percent slopes

Component Description

Spoonerhill, stony, and similar soils

Extent: 5 to 95 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Footslopes

Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Thin mantle of loamy alluvium and sandy alluvium underlain by sandy

till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, June, July,

August, September, October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 1.0 percent

Typical profile:

A-0 to 3 inches; sandy loam

Bw1—3 to 12 inches; gravelly sandy loam 2Bw2—12 to 16 inches; gravelly loamy sand

2E/B—16 to 34 inches; loamy sand

2C1—34 to 46 inches; sand

2C2-46 to 80 inches; gravelly loamy sand

Spoonerhill and similar soils

Extent: 5 to 95 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Footslopes

Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Thin mantle of loamy alluvium and sandy alluvium underlain by sandy

till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, June, July,

August, September, October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 1.0 percent

Typical profile:

A-0 to 3 inches; sandy loam

Bw1—3 to 12 inches; gravelly sandy loam 2Bw2—12 to 16 inches; gravelly loamy sand

2E/B—16 to 34 inches; loamy sand

2C1-34 to 46 inches: sand

2C2-46 to 80 inches; gravelly loamy sand

706A—Winterfield-Totagatic complex, 0 to 2 percent slopes, frequently flooded

Component Description

Winterfield and similar soils

Extent: 50 to 80 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 1 to 2 percent

Texture of the surface layer: Very fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Sandy alluvium

Lowest frequency of flooding (if it occurs): Rare (January, February, December)

Highest frequency of flooding: Frequent (April) Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 3.0 feet (September, October)

Ponding: None

Available water capacity to a depth of 60 inches: 5.0 inches Content of organic matter in the upper 10 inches: 2.2 percent

Typical profile:

A-0 to 7 inches; very fine sandy loam

C-7 to 60 inches; sand

Totagatic and similar soils

Extent: 15 to 40 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained Parent material: Mostly sandy alluvium

Lowest frequency of flooding (if it occurs): Rare (January, February, July, August,

December)

Highest frequency of flooding: Frequent (April, May)

Shallowest depth to wet zone: At the surface (May, November, December)

Deepest depth to wet zone: More than 6.7 feet (April)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April, May)

Available water capacity to a depth of 60 inches: 4.4 inches Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

A—0 to 4 inches; fine sandy loam Bw1—4 to 8 inches; loamy fine sand Bw2—8 to 17 inches; fine sand

Cg1—17 to 28 inches; fine sand

Cg2—28 to 46 inches; sand C—46 to 70 inches; sand

C´g—70 to 80 inches; sand

715A—Mora silt loam, 0 to 3 percent slopes, very stony

Component Description

Mora and similar soils

Extent: 60 to 95 percent of the mapped areas

Geomorphic setting: Moraines
Position on the landform: Footslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Somewhat poorly drained

Parent material: Loamy deposits over dense loamy till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 7.3 inches Content of organic matter in the upper 10 inches: 1.7 percent

Typical profile:

A-0 to 4 inches; silt loam

E—4 to 9 inches; fine sandy loam B/E—9 to 14 inches; sandy loam Bt—14 to 36 inches; sandy loam BC—36 to 46 inches; sandy loam BCd—46 to 80 inches; sandy loam

717B—Milaca silt loam, 3 to 6 percent slopes, very stony

Component Description

Milaca and similar soils

Extent: 70 to 95 percent of the mapped areas

Geomorphic setting: Moraines

Position on the landform: Footslopes and summits

Slope range: 3 to 6 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Loamy deposits over dense loamy till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, June, July,

August, September, October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 7.1 inches Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

A-0 to 4 inches: silt loam

E—4 to 13 inches; fine sandy loam B/E—13 to 17 inches; sandy loam Bt—17 to 43 inches; sandy loam BCd—43 to 80 inches; sandy loam

717C—Milaca silt loam, 6 to 12 percent slopes, very stony

Component Description

Milaca and similar soils

Extent: 70 to 90 percent of the mapped areas

Geomorphic setting: Moraines

Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Loamy deposits over dense loamy till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, June, July,

August, September, October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 7.1 inches Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

A-0 to 4 inches; silt loam

E—4 to 13 inches; fine sandy loam B/E—13 to 17 inches; sandy loam Bt—17 to 43 inches; sandy loam BCd—43 to 80 inches; sandy loam

720F—Haustrup-Lundeen-Rock outcrop complex, 12 to 65 percent slopes, very stony

Component Description

Haustrup and similar soils

Extent: 40 to 70 percent of the mapped areas

Geomorphic setting: Knobs

Position on the landform: Shoulders and backslopes

Slope range: 12 to 25 percent Texture of the surface layer: Silt loam

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Drainage class: Somewhat excessively drained Parent material: Loess over basalt bedrock

Flooding: None

Depth to wet zone: More than 1.0 foot all year

Ponding: None

Available water capacity to a depth of 60 inches: 3.7 inches Content of organic matter in the upper 10 inches: 1.7 percent

Typical profile:

A1—0 to 4 inches; silt loam A2—4 to 16 inches; silt loam 2R—16 to 80 inches; bedrock

Lundeen and similar soils

Extent: 15 to 40 percent of the mapped areas

Geomorphic setting: Knobs

Position on the landform: Shoulders and backslopes

Slope range: 12 to 25 percent Texture of the surface layer: Silt loam

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Drainage class: Well drained

Parent material: Eolian deposits over basalt bedrock

Flooding: None

Depth to wet zone: More than 2.5 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 7.3 inches Content of organic matter in the upper 10 inches: 1.7 percent

Typical profile:

A1—0 to 3 inches; silt loam A2—3 to 16 inches; silt loam Bw—16 to 33 inches; silt loam 2R—33 to 80 inches; bedrock

Rock outcrop

Extent: 15 to 35 percent of the mapped areas

Slope range: 12 to 65 percent

726B—Sissabagama loamy sand, 0 to 6 percent slopes

Component Description

Sissabagama and similar soils

Extent: 75 to 100 percent of the mapped areas

Geomorphic setting: Lake plains
Position on the landform: Summits

Slope range: 0 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Sandy deposits underlain by stratified sandy and loamy lacustrine

deposits Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, August,

September, October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 5.7 inches Content of organic matter in the upper 10 inches: 2.0 percent

Typical profile:

Ap—0 to 10 inches; loamy sand Bw—10 to 31 inches; sand E&Bt—31 to 45 inches: sand

2C—45 to 80 inches; stratified very fine sand to silt

742B—Milaca sandy loam, 2 to 6 percent slopes, very stony

Component Description

Milaca and similar soils

Extent: 80 to 100 percent of the mapped areas

Geomorphic setting: Moraines
Position on the landform: Summits
Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Loamy deposits over dense loamy till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, June, July,

August, September, October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 6.8 inches Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

A—0 to 4 inches; sandy loam E—4 to 13 inches; fine sandy loam B/E—13 to 17 inches; sandy loam Bt—17 to 43 inches; sandy loam BCd—43 to 80 inches; sandy loam

742C—Milaca sandy loam, 6 to 12 percent slopes, very stony

Component Description

Milaca and similar soils

Extent: 85 to 100 percent of the mapped areas

Geomorphic setting: Moraines

Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Loamy deposits over dense loamy till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, June, July,

August, September, October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 6.8 inches Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

A—0 to 4 inches; sandy loam E—4 to 13 inches; fine sandy loam B/E—13 to 17 inches; sandy loam Bt—17 to 43 inches; sandy loam BCd—43 to 80 inches; sandy loam

742D—Milaca sandy loam, 12 to 20 percent slopes, very stony

Component Description

Milaca and similar soils

Extent: 85 to 100 percent of the mapped areas

Geomorphic setting: Moraines

Position on the landform: Backslopes and shoulders

Slope range: 12 to 20 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Loamy deposits over dense loamy till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, June, July,

August, September, October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 6.8 inches Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

A—0 to 4 inches; sandy loam E—4 to 13 inches; fine sandy loam B/E—13 to 17 inches; sandy loam Bt—17 to 43 inches; sandy loam BCd—43 to 80 inches; sandy loam

755A—Moppet, occasionally flooded-Fordum, frequently flooded, complex, 0 to 3 percent slopes

Component Description

Moppet and similar soils

Extent: 35 to 75 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 0 to 3 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Loamy alluvium underlain by sandy and gravelly alluvium

Lowest frequency of flooding (if it occurs): Very rare (January, February, July, August,

December)

Highest frequency of flooding: Occasional (April, May)

Shallowest depth to wet zone: 2.5 feet (April) Deepest depth to wet zone: 4.5 feet (August)

Ponding: None

Available water capacity to a depth of 60 inches: 8.6 inches Content of organic matter in the upper 10 inches: 1.4 percent

Typical profile:

A—0 to 4 inches; fine sandy loam E—4 to 10 inches; fine sandy loam Bw—10 to 39 inches; fine sandy loam 2C—39 to 60 inches; gravelly sand

Fordum and similar soils

Extent: 25 to 65 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 0 to 2 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Silty or loamy alluvium underlain by sandy and gravelly alluvium Lowest frequency of flooding (if it occurs): Rare (January, February, July, August,

December)

Highest frequency of flooding: Frequent (April, May)

Shallowest depth to wet zone: At the surface (April, May, November)

Deepest depth to wet zone: 2.5 feet (February, August)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April, May)

Available water capacity to a depth of 60 inches: 7.2 inches Content of organic matter in the upper 10 inches: 7.4 percent

Typical profile:

A—0 to 6 inches; silt loam Cg1—6 to 18 inches; silt loam

Cg2—18 to 30 inches; fine sandy loam

2Cg-30 to 60 inches; sand

771A—Lenroot loamy sand, 0 to 3 percent slopes

Component Description

Lenroot and similar soils

Extent: 75 to 95 percent of the mapped areas

Geomorphic setting: Outwash plains; stream terraces

Position on the landform: Footslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained Parent material: Sandy and gravelly outwash

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: 5.0 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 2.8 inches Content of organic matter in the upper 10 inches: 0.5 percent

Typical profile:

A—0 to 4 inches; loamy sand Bw1—4 to 8 inches; loamy sand

Bw2—8 to 14 inches; loamy coarse sand

BC—14 to 21 inches; gravelly coarse sand C—21 to 80 inches; stratified coarse sand to gravelly coarse sand

812B—Mora sandy loam, 0 to 4 percent slopes, very stony

Component Description

Mora and similar soils

Extent: 80 to 100 percent of the mapped areas

Geomorphic setting: Moraines
Position on the landform: Footslopes

Slope range: 0 to 4 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Somewhat poorly drained

Parent material: Loamy deposits over dense loamy till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 7.0 inches Content of organic matter in the upper 10 inches: 1.7 percent Typical profile:

A—0 to 4 inches; sandy loam E—4 to 9 inches; fine sandy loam B/E—9 to 14 inches; sandy loam Bt—14 to 36 inches; sandy loam BC—36 to 46 inches; sandy loam BCd—46 to 80 inches; sandy loam

825A—Meehan sand, 0 to 2 percent slopes

Component Description

Meehan and similar soils

Extent: 80 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains

Position on the landform: Footslopes

Slope range: 0 to 2 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Sandy lacustrine material or sandy outwash

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.0 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 3.3 inches Content of organic matter in the upper 10 inches: 0.8 percent Typical profile:

A—0 to 4 inches; sand Bw—4 to 29 inches; sand C—29 to 60 inches; sand

896A—Wurtsmith sand, 0 to 3 percent slopes

Component Description

Wurtsmith and similar soils

Extent: 75 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains

Position on the landform: Footslopes

Slope range: 0 to 3 percent Texture of the surface layer: Sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Sandy lacustrine deposits or sandy outwash

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: 5.0 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 2.3 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

A—0 to 6 inches; sand Bw—6 to 33 inches; sand C—92 to 60 inches; sand

980A—Soderbeck very gravelly loam, 0 to 2 percent slopes, very stony, rarely flooded

Component Description

Soderbeck and similar soils

Extent: 75 to 100 percent of the mapped areas

Geomorphic setting: Flood plains Slope range: 0 to 2 percent

Texture of the surface layer: Very gravelly loam

Depth to restrictive feature: 40 to 60 inches to lithic bedrock

Drainage class: Somewhat poorly drained

Parent material: Loamy-skeletal alluvium over sandy-skeletal alluvium over

sandstone

Months in which flooding does not occur: January, February, March, May, June, July,

August, September, October, November, December

Highest frequency of flooding: Rare (April) Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 3.7 inches Content of organic matter in the upper 10 inches: 1.8 percent

Typical profile:

A-0 to 4 inches; very gravelly loam

Bt1—4 to 18 inches; extremely gravelly loam

Bt2—18 to 28 inches; extremely gravelly coarse sandy loam

2BC-28 to 42 inches; extremely gravelly coarse sand

3Cr—42 to 55 inches; bedrock 3R—55 to 80 inches; bedrock

1070C—Fremstadt, stony-Cress complex, 6 to 15 percent slopes

Component Description

Fremstadt and similar soils

Extent: 30 to 70 percent of the mapped areas Geomorphic setting: Disintegration moraines Position on the landform: Backslopes and shoulders

Slope range: 6 to 15 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Sandy till or sandy mudflow sediments

Flooding: None

Depth to wet zone: More than 6.0 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 5.5 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

A—0 to 5 inches; sandy loam Bw—5 to 33 inches; loamy sand B/E1—33 to 37 inches; sandy loam B/E2—37 to 45 inches; loamy sand BC—45 to 70 inches; loamy sand C—70 to 80 inches; loamy sand

Cress and similar soils

Extent: 15 to 40 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Thin layer of loamy alluvium underlain by stratified sandy and gravelly

outwash Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.9 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw1—3 to 15 inches; sandy loam 2Bw2—15 to 31 inches; loamy sand

2Bw3—31 to 36 inches; gravelly loamy sand

2C-36 to 60 inches; stratified sand to very gravelly coarse sand

1070D—Fremstadt, stony-Cress complex, 15 to 30 percent slopes

Component Description

Fremstadt and similar soils

Extent: 40 to 80 percent of the mapped areas Geomorphic setting: Disintegration moraines Position on the landform: Backslopes and shoulders

Slope range: 15 to 30 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Sandy till or sandy mudflow sediments

Flooding: None

Depth to wet zone: More than 6.0 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 5.5 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

A—0 to 5 inches; sandy loam Bw—5 to 33 inches; loamy sand B/E1—33 to 37 inches; sandy loam B/E2—37 to 45 inches; loamy sand BC—45 to 70 inches; loamy sand C—70 to 80 inches; loamy sand

Cress and similar soils

Extent: 20 to 50 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Backslopes and shoulders

Slope range: 12 to 30 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Thin layer of loamy alluvium underlain by stratified sandy and gravelly

outwash Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.9 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw1—3 to 15 inches; sandy loam 2Bw2—15 to 31 inches; loamy sand

2Bw3—31 to 36 inches; gravelly loamy sand

2C-36 to 60 inches; stratified sand to very gravelly coarse sand

1080B—Spoonerhill-Spoonerhill, stony-Cress complex, 1 to 6 percent slopes

Component Description

Spoonerhill and similar soils

Extent: 5 to 80 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Summits Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Thin mantle of loamy alluvium and sandy alluvium underlain by sandy

till or sandy mudflow sediments

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, June, July,

August, September, October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 1.0 percent

Typical profile:

A-0 to 3 inches; sandy loam

Bw1—3 to 12 inches; gravelly sandy loam 2Bw2—12 to 16 inches; gravelly loamy sand

2E/B—16 to 34 inches; loamy sand

2C1—34 to 46 inches; sand

2C2-46 to 80 inches; gravelly loamy sand

Spoonerhill, stony, and similar soils

Extent: 5 to 80 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Summits Slope range: 2 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Thin mantle of loamy alluvium and sandy alluvium underlain by sandy

till or sandy mudflow sediments

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, March, June, July,

August, September, October, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 1.0 percent

Typical profile:

A—0 to 3 inches; sandy loam

Bw1—3 to 12 inches; gravelly sandy loam 2Bw2—12 to 16 inches; gravelly loamy sand

2E/B-16 to 34 inches; loamy sand

2C1—34 to 46 inches; sand

2C2—46 to 80 inches; gravelly loamy sand

Cress and similar soils

Extent: 15 to 35 percent of the mapped areas

Geomorphic setting: Outwash plains; stream terraces

Position on the landform: Summits

Slope range: 1 to 6 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat excessively drained

Parent material: Thin layer of loamy alluvium underlain by stratified sandy and gravelly

outwash Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.9 percent

Typical profile:

A—0 to 3 inches; sandy loam Bw1—3 to 15 inches; sandy loam 2Bw2—15 to 31 inches; loamy sand

2Bw3-31 to 36 inches; gravelly loamy sand

2C-36 to 60 inches; stratified sand to very gravelly coarse sand

2002—Udorthents, earthen dams

Component Description

Udorthents, earthen dams

Extent: 100 percent of the map unit

General description: Earthen dams generally consist of silty, loamy, and clayey soils. Service roads, spillways, very steep side slopes, dikes, levees, and small concrete or steel dam structures may be included in mapping. Because of the variability of this map unit, interpretations for specific uses are not available. Onsite investigation is needed.

2015—Pits

Component Description

Pits

Extent: 100 percent of the map unit

Geomorphic setting: Stream terraces; outwash plains; moraines; eskers

Flooding: None Ponding: None

General description: This map unit consists of open excavations from which sand, gravel, or loamy material has been removed. Most pits are in areas of glacial outwash, but some are in areas of till. Some pits are still in use. Others are no longer used and have been reclaimed or are covered with brush and weeds. Some pits contain water. Because of the variability of this map unit, interpretations for specific uses are not available. Onsite investigation is needed.

2050—Landfill

Component Description

Landfill

Extent: 100 percent of the map unit

General description: This map unit occurs as an area of accumulated waste products of human habitation, which can be above or below natural ground level. Because of the variability of this map unit, interpretations for specific uses are not available. Onsite investigation is needed.

3011A—Barronett silt loam, 0 to 2 percent slopes

Component Description

Barronett and similar soils

Extent: 75 to 100 percent of the mapped areas

Geomorphic setting: Depressions on lake plains; drainageways on stream terraces

Slope range: 0 to 2 percent

Texture of the surface layer: Silt loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Mostly silty lacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, June, October, November)

Deepest depth to wet zone: 5.5 feet (February)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April, May)

Available water capacity to a depth of 60 inches: 11.5 inches Content of organic matter in the upper 10 inches: 6.1 percent

Typical profile:

Ap—0 to 9 inches; silt loam Eg—9 to 16 inches; silt loam Btg—16 to 34 inches; silt loam

Cg-34 to 60 inches; stratified silt loam to very fine sand

3082E—Braham-Shawano complex, 12 to 35 percent slopes

Component Description

Braham and similar soils

Extent: 40 to 70 percent of the mapped areas

Geomorphic setting: Moraines

Position on the landform: Shoulders and backslopes

Slope range: 12 to 30 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Sandy eolian deposits over loamy calcareous till

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 8.3 inches Content of organic matter in the upper 10 inches: 0.9 percent

Typical profile:

Ap—0 to 8 inches; loamy fine sand E—8 to 28 inches; loamy sand 2Bt1—28 to 42 inches; clay loam 2Bt2—42 to 48 inches; loam 2Bk—48 to 80 inches; loam

Shawano and similar soils

Extent: 15 to 40 percent of the mapped areas

Geomorphic setting: Outwash plains

Position on the landform: Shoulders and backslopes

Slope range: 12 to 35 percent

Texture of the surface layer: Fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Excessively drained Parent material: Sandy eolian deposits

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 4.4 inches Content of organic matter in the upper 10 inches: 0.3 percent

Typical profile:

A—0 to 2 inches; fine sand BA—2 to 4 inches; fine sand Bw—4 to 26 inches; fine sand C—26 to 60 inches; fine sand

3114A—Saprists, Aquents, and Aquepts, 0 to 1 percent slopes, ponded, flooded

Component Description

Saprists and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Drainageways on lake plains, outwash plains, and moraines;

depressions on outwash plains and moraines

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous or woody organic material 16 inches to more than 51

inches thick Flooding: None

Wet zone: At the surface all year Ponding depth: 1.6 feet all year

Available water capacity to a depth of 60 inches: 23.9 inches Content of organic matter in the upper 10 inches: 62.0 percent

Typical profile:

Oa-0 to 80 inches; muck

Aquents and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Drainageways on lake plains, outwash plains, and moraines;

depressions on outwash plains and moraines

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Sandy outwash, eolian, lacustrine, or till deposits

Floodina: None

Wet zone: At the surface all year Ponding depth: 1.6 feet all year

Available water capacity to a depth of 60 inches: 5.6 inches Content of organic matter in the upper 10 inches: 25.0 percent

Typical profile:

Oa—0 to 3 inches; muck A—3 to 8 inches; loamy sand Bg—8 to 16 inches; sand BCg—16 to 22 inches; sand C—22 to 60 inches; sand

Aquepts and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Drainageways on lake plains, outwash plains, and moraines;

depressions on outwash plains and moraines

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Loamy outwash, lacustrine, till, or alluvial deposits

Flooding: None

Wet zone: At the surface all year Ponding depth: 1.6 feet all year

Available water capacity to a depth of 60 inches: 6.2 inches Content of organic matter in the upper 10 inches: 18.6 percent

Typical profile:

Oa—0 to 4 inches; muck Eg—4 to 15 inches; silt loam 2Bq—15 to 28 inches; loam

3C-28 to 60 inches; stratified sand to very gravelly coarse sand

3125A—Meehan loamy sand, 0 to 2 percent slopes

Component Description

Meehan and similar soils

Extent: 70 to 100 percent of the mapped areas

Geomorphic setting: Outwash plains Position on the landform: Footslopes

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Sandy outwash

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.0 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 3.5 inches Content of organic matter in the upper 10 inches: 1.0 percent

Typical profile:

A—0 to 5 inches; loamy sand E—5 to 8 inches; sand Bw—8 to 28 inches; sand C—28 to 60 inches; sand

3126A—Wurtsmith loamy sand, 0 to 3 percent slopes

Component Description

Wurtsmith and similar soils

Extent: 65 to 100 percent of the mapped areas

Geomorphic setting: Outwash plains Position on the landform: Footslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Sandy outwash

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: 5.0 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 3.8 inches Content of organic matter in the upper 10 inches: 3.2 percent

Typical profile:

Ap—0 to 9 inches; loamy sand Bw—9 to 37 inches; coarse sand C—37 to 60 inches; sand

3312B—Glendenning, very stony-Glendenning complex, 0 to 4 percent slopes

Component Description

Glendenning, very stony, and similar soils

Extent: 20 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Footslopes

Slope range: 0 to 4 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 60 to 80 inches to dense material

Drainage class: Somewhat poorly drained

Parent material: Sandy loam till or mudflow sediments

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 7.8 inches Content of organic matter in the upper 10 inches: 1.1 percent Typical profile:

A—0 to 5 inches; sandy loam E—5 to 15 inches; sandy loam E/B—15 to 20 inches; sandy loam B/E—20 to 26 inches; sandy loam Bt1—26 to 40 inches; sandy loam Bt2—40 to 65 inches; sandy loam Cd—65 to 80 inches; sandy loam

Glendenning and similar soils

Extent: 15 to 75 percent of the mapped areas Geomorphic setting: Disintegration moraines

Position on the landform: Footslopes

Slope range: 0 to 4 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: 60 to 80 inches to dense material

Drainage class: Somewhat poorly drained

Parent material: Sandy loam till or mudflow sediments

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: More than 6.7 feet (July, August)

Ponding: None

Available water capacity to a depth of 60 inches: 7.8 inches Content of organic matter in the upper 10 inches: 1.3 percent Typical profile:

Ap—0 to 7 inches; sandy loam E—7 to 15 inches; sandy loam E/B—15 to 20 inches; sandy loam B/E—20 to 26 inches; sandy loam Bt1—26 to 40 inches; sandy loam Bt2—40 to 65 inches; sandy loam Cd—65 to 80 inches; sandy loam

3336A—Fenander fine sandy loam, 0 to 2 percent slopes

Component Description

Fenander and similar soils

Extent: 80 to 100 percent of the mapped areas

Geomorphic setting: Depressions on lake plains; drainageways on stream terraces

Slope range: 0 to 2 percent

Texture of the surface layer: Fine sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Poorly drained

Parent material: Stratified loamy and sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (March, April, May, June, October, November)

Deepest depth to wet zone: 5.5 feet (February)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April, May)

Available water capacity to a depth of 60 inches: 8.4 inches

Content of organic matter in the upper 10 inches: 2.4 percent Typical profile:

Ap—0 to 9 inches; fine sandy loam Eg—9 to 15 inches; fine sandy loam

Btg-15 to 27 inches; loam

BC—27 to 33 inches; fine sandy loam

C-33 to 80 inches; stratified loamy fine sand to fine sandy loam

3403A—Loxley, Beseman, and Dawson soils, 0 to 1 percent slopes

Component Description

Loxley and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions on disintegration moraines

Slope range: 0 to 1 percent

Texture of the surface layer: Mucky peat

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material more than 51 inches thick

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, June, October, November)

Deepest depth to wet zone: 1.0 foot (January, February)

Months in which ponding does not occur: January, February, March, May, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April)

Available water capacity to a depth of 60 inches: 26.5 inches Content of organic matter in the upper 10 inches: 80.0 percent

Typical profile:

Oe—0 to 13 inches; mucky peat Oa—13 to 60 inches; muck

Beseman and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions on disintegration moraines

Slope range: 0 to 1 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Herbaceous organic material 16 to 51 inches thick over loamy till

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, June, October, November)

Deepest depth to wet zone: 1.0 foot (January, February)

Months in which ponding does not occur: January, February, March, May, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April)

Available water capacity to a depth of 60 inches: 18.2 inches Content of organic matter in the upper 10 inches: 50.0 percent

Typical profile:

Oa—0 to 36 inches; muck Cg—36 to 60 inches; loam

Dawson and similar soils

Extent: 0 to 100 percent of the mapped areas

Geomorphic setting: Depressions on disintegration moraines

Slope range: 0 to 1 percent Texture of the surface layer: Peat

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Sphagnum moss and herbaceous organic material 16 to 51 inches thick over sandy or sandy and gravelly deposits

Floodina: None

Shallowest depth to wet zone: At the surface (April, May, June, October, November) Deepest depth to wet zone: 0.5 foot (January, February, March, July, August,

September, December)

Months in which ponding does not occur: January, February, March, May, June, July, August, September, October, November, December

Deepest ponding: 0.5 foot (April)

Available water capacity to a depth of 60 inches: 18.2 inches Content of organic matter in the upper 10 inches: 75.0 percent

Typical profile:

Oi—0 to 8 inches; peat Oa—8 to 38 inches; muck A—38 to 40 inches; silt loam 2C—40 to 60 inches; sand

3429B—Lara loamy fine sand, 0 to 6 percent slopes

Component Description

Lara and similar soils

Extent: 60 to 90 percent of the mapped areas

Geomorphic setting: Lake plains Position on the landform: Summits Slope range: 0 to 6 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Sandy lacustrine over clayey lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 5.1 inches Content of organic matter in the upper 10 inches: 1.5 percent

Typical profile:

Ap—0 to 10 inches; loamy fine sand Bw—10 to 35 inches; fine sand Bt—35 to 42 inches; loamy fine sand

2Btg—42 to 55 inches; clay 2Bt1—55 to 75 inches; clay 2Bt2—75 to 80 inches; silty clay

3429C—Lara loamy fine sand, 6 to 12 percent slopes

Component Description

Lara and similar soils

Extent: 85 to 100 percent of the mapped areas

Geomorphic setting: Lake plains

Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Sandy lacustrine over clayey lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 1.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 5.1 inches Content of organic matter in the upper 10 inches: 1.5 percent

Typical profile:

Ap—0 to 10 inches; loamy fine sand Bw—10 to 35 inches; fine sand Bt—35 to 42 inches; loamy fine sand

2Btg—42 to 55 inches; clay 2Bt1—55 to 75 inches; clay 2Bt2—75 to 80 inches; silty clay

3446A—Newson muck, 0 to 2 percent slopes

Component Description

Newson and similar soils

Extent: 65 to 100 percent of the mapped areas

Geomorphic setting: Drainageways and depressions on outwash plains and lake plains

Slope range: 0 to 2 percent Texture of the surface layer: Muck

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Very poorly drained

Parent material: Sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: At the surface (April, May, November)

Deepest depth to wet zone: 2.5 feet (February, August)

Months in which ponding does not occur: January, February, March, June, July,

August, September, October, November, December

Deepest ponding: 0.5 foot (April, May)

Available water capacity to a depth of 60 inches: 5.6 inches Content of organic matter in the upper 10 inches: 25.0 percent

Typical profile:

Oa—0 to 3 inches; muck A—3 to 8 inches; loamy sand Bg—8 to 16 inches; sand BCg—16 to 22 inches; sand C—22 to 60 inches; sand

3448B—Grettum loamy sand, 0 to 6 percent slopes

Component Description

Grettum and similar soils

Extent: 60 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains

Position on the landform: Summits Slope range: 0 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Sandy outwash or sandy lacustrine deposits with lamellae

Flooding: None

Shallowest depth to wet zone: 4.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

A—0 to 3 inches; loamy sand Bw—3 to 32 inches; sand E&Bt—32 to 75 inches; sand C—75 to 80 inches; sand

3448C—Grettum loamy sand, 6 to 12 percent slopes

Component Description

Grettum and similar soils

Extent: 65 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains Position on the landform: Shoulders and backslopes

Slope range: 6 to 12 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Sandy outwash or sandy lacustrine deposits with lamellae

Flooding: None

Shallowest depth to wet zone: 4.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, June, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

A—0 to 3 inches; loamy sand Bw—3 to 32 inches; sand

E&Bt—32 to 75 inches; sand C—75 to 80 inches; sand

3510B—Pomroy-Fremstadt-Fremstadt, stony, complex, 1 to 6 percent slopes

Component Description

Pomroy and similar soils

Extent: 5 to 95 percent of the mapped areas

Geomorphic setting: Moraines
Position on the landform: Summits
Slope range: 2 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy outwash over loamy till over dense loamy till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 6.6 inches Content of organic matter in the upper 10 inches: 0.4 percent

Typical profile:

A—0 to 3 inches; loamy sand Bw—3 to 30 inches; loamy sand 2Bt—30 to 45 inches; sandy loam 2BCd—45 to 80 inches; sandy loam

Fremstadt and similar soils

Extent: 5 to 95 percent of the mapped areas

Geomorphic setting: Moraines
Position on the landform: Summits
Slope range: 1 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Sandy till or sandy mudflow sediments

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 5.3 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

A—0 to 5 inches; loamy sand Bw—5 to 33 inches; loamy sand B/E1—33 to 37 inches; sandy loam B/E2—37 to 45 inches; loamy sand BC—45 to 70 inches; loamy sand C—70 to 80 inches; loamy sand

Fremstadt, stony, and similar soils

Extent: 5 to 95 percent of the mapped areas

Geomorphic setting: Moraines
Position on the landform: Summits
Slope range: 1 to 6 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Sandy till or sandy mudflow sediments

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 5.3 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

A—0 to 5 inches; loamy sand Bw—5 to 33 inches; loamy sand B/E1—33 to 37 inches; sandy loam B/E2—37 to 45 inches; loamy sand BC—45 to 70 inches; loamy sand C—70 to 80 inches; loamy sand

3510C—Pomroy-Fremstadt-Fremstadt, stony, complex, 6 to 15 percent slopes

Component Description

Pomroy and similar soils

Extent: 5 to 95 percent of the mapped areas

Geomorphic setting: Moraines

Position on the landform: Shoulders and backslopes

Slope range: 6 to 15 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Moderately well drained

Parent material: Sandy outwash over loamy till over dense loamy till

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 6.6 inches Content of organic matter in the upper 10 inches: 0.4 percent

Typical profile:

A—0 to 3 inches; loamy sand Bw—3 to 30 inches; loamy sand 2Bt—30 to 45 inches; sandy loam 2BCd—45 to 80 inches; sandy loam

Fremstadt and similar soils

Extent: 5 to 95 percent of the mapped areas

Geomorphic setting: Moraines

Position on the landform: Shoulders and backslopes

Slope range: 6 to 15 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Sandy till or sandy mudflow sediments

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 5.3 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

A—0 to 5 inches; loamy sand Bw—5 to 33 inches; loamy sand B/E1—33 to 37 inches; sandy loam B/E2—37 to 45 inches; loamy sand BC—45 to 70 inches; loamy sand C—70 to 80 inches; loamy sand

Fremstadt, stony, and similar soils

Extent: 5 to 95 percent of the mapped areas

Geomorphic setting: Moraines

Position on the landform: Shoulders and backslopes

Slope range: 6 to 15 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Well drained

Parent material: Sandy till or sandy mudflow sediments

Flooding: None

Depth to wet zone: More than 6.7 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 5.3 inches

Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

A—0 to 5 inches; loamy sand Bw—5 to 33 inches; loamy sand B/E1—33 to 37 inches; sandy loam B/E2—37 to 45 inches; loamy sand BC—45 to 70 inches; loamy sand C—70 to 80 inches; loamy sand

3511A—Bushville loamy sand, 0 to 3 percent slopes

Component Description

Bushville and similar soils

Extent: 85 to 100 percent of the mapped areas

Geomorphic setting: Moraines
Position on the landform: Footslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: 40 to 60 inches to dense material

Drainage class: Somewhat poorly drained

Parent material: Mantle of sandy outwash over dense loamy till

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: More than 6.7 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 5.2 inches Content of organic matter in the upper 10 inches: 0.4 percent

Typical profile:

A—0 to 4 inches; loamy sand E—4 to 21 inches; loamy sand

2Bw—21 to 24 inches; fine sandy loam 2Bt1—24 to 30 inches; fine sandy loam 2Bt2—30 to 45 inches; sandy loam 2BCd—45 to 60 inches; sandy loam

3516A—Slimlake sandy loam, 0 to 3 percent slopes

Component Description

Slimlake and similar soils

Extent: 55 to 100 percent of the mapped areas Geomorphic setting: Outwash plains; stream terraces

Position on the landform: Footslopes

Slope range: 0 to 3 percent

Texture of the surface layer: Sandy loam

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Loamy alluvium over stratified sandy and gravelly outwash

Flooding: None

Shallowest depth to wet zone: 2.5 feet (April)

Deepest depth to wet zone: 5.5 feet (February, August)

Pondina: None

Available water capacity to a depth of 60 inches: 4.3 inches Content of organic matter in the upper 10 inches: 1.3 percent

Typical profile:

A—0 to 6 inches; sandy loam Bw—6 to 17 inches; sandy loam 2BC—17 to 42 inches; gravelly sand 2C1—42 to 53 inches; gravelly sand 2C2—53 to 80 inches; sand

3625A—Lino loamy fine sand, 0 to 2 percent slopes

Component Description

Lino and similar soils

Extent: 75 to 95 percent of the mapped areas Geomorphic setting: Outwash plains; lake plains Position on the landform: Summits and footslopes

Slope range: 0 to 2 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Somewhat poorly drained

Parent material: Sandy outwash or eolian deposits

Flooding: None

Shallowest depth to wet zone: 0.5 foot (April)

Deepest depth to wet zone: 4.0 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 4.7 inches Content of organic matter in the upper 10 inches: 1.0 percent

Typical profile:

Ap—0 to 7 inches; loamy fine sand Bw—7 to 45 inches; fine sand C—45 to 60 inches; fine sand

3626A—Crex loamy fine sand, 0 to 3 percent slopes

Component Description

Crex and similar soils

Extent: 80 to 100 percent of the mapped areas Geomorphic setting: Lake plains; outwash plains Position on the landform: Footslopes and summits

Slope range: 0 to 3 percent

Texture of the surface layer: Loamy fine sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Sandy outwash or eolian deposits

Flooding: None

Shallowest depth to wet zone: 2.0 feet (April)

Deepest depth to wet zone: 5.0 feet (February, August)

Ponding: None

Available water capacity to a depth of 60 inches: 4.5 inches Content of organic matter in the upper 10 inches: 2.6 percent

Typical profile:

Oe—0 to 1 inch; moderately decomposed plant material

A—1 to 7 inches; loamy fine sand Bw—7 to 40 inches; fine sand C1—40 to 71 inches; fine sand C2—71 to 80 inches; sand

3629B—Perida loamy sand, 0 to 4 percent slopes

Component Description

Perida and similar soils

Extent: 70 to 100 percent of the mapped areas

Geomorphic setting: Lake plains Position on the landform: Summits

Slope range: 0 to 4 percent

Texture of the surface layer: Loamy sand

Depth to restrictive feature: Very deep (more than 60 inches)

Drainage class: Moderately well drained

Parent material: Mantle of sandy outwash or sandy lacustrine deposits over clayey lacustrine deposits underlain by sandy outwash or sandy lacustrine deposits

Flooding: None

Shallowest depth to wet zone: 3.5 feet (April)

Deepest depth to wet zone: More than 6.7 feet (January, February, July, August,

September, October, November, December)

Ponding: None

Available water capacity to a depth of 60 inches: 4.8 inches Content of organic matter in the upper 10 inches: 1.2 percent

Typical profile:

Ap—0 to 9 inches; loamy sand Bw1,Bw2,Bw3—9 to 43 inches; sand Bw4—43 to 45 inches; loamy sand 2Bt1—45 to 60 inches; clay 2Bt2—60 to 74 inches; silty clay 3C—74 to 80 inches; sand

3636B—Plainbo sand, 2 to 6 percent slopes

Component Description

Plainbo and similar soils

Extent: 90 to 100 percent of the mapped areas

Geomorphic setting: Strath terraces Position on the landform: Summits Slope range: 1 to 6 percent Texture of the surface layer: Sand

Depth to restrictive features: 20 to 40 inches to paralithic bedrock; 60 to 80 inches to

lithic bedrock

Drainage class: Excessively drained

Parent material: Sandy outwash over residuum derived from sandstone

Flooding: None

Depth to wet zone: More than 2.5 feet all year

Pondina: None

Available water capacity to a depth of 60 inches: 2.0 inches Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

A—0 to 4 inches; sand Bw1—4 to 13 inches; sand

Bw2—13 to 32 inches; gravelly sand 2Cr—32 to 75 inches; weathered bedrock

2R—75 to 80 inches; bedrock

3636C—Plainbo sand, 6 to 12 percent slopes

Component Description

Plainbo and similar soils

Extent: 90 to 100 percent of the mapped areas

Geomorphic setting: Strath terraces

Position on the landform: Backslopes and shoulders

Slope range: 6 to 12 percent Texture of the surface layer: Sand

Depth to restrictive features: 20 to 40 inches to paralithic bedrock; 60 to 80 inches to

lithic bedrock

Drainage class: Excessively drained

Parent material: Sandy outwash over residuum derived from sandstone

Flooding: None

Depth to wet zone: More than 2.5 feet all year

Ponding: None

Available water capacity to a depth of 60 inches: 2.0 inches Content of organic matter in the upper 10 inches: 0.8 percent

Typical profile:

A—0 to 4 inches; sand Bw1—4 to 13 inches; sand

Bw2—13 to 32 inches; gravelly sand 2Cr—32 to 75 inches; weathered bedrock

2R-75 to 80 inches; bedrock

M-W-Miscellaneous water

 This map unit consists of manmade areas that are used for industrial, sanitary, or mining applications and that contain water most of the year. Included in mapping are narrow dikes that surround the water areas. Because of the variability of this map unit, interpretations for specific uses are not available. Onsite investigation is needed.

W-Water

• This map unit consists of naturally occurring bodies of water, such as rivers, streams, lakes, reservoirs, and ponds.

Table 2.--Acreage and Proportionate Extent of the Soils

Map symbol	Soil name	Acres	Percent
3A	Totagatic-Bowstring-Ausable complex, 0 to 2 percent slopes, frequently		
	flooded	5,878	1.0
12A	Makwa stony muck, 0 to 1 percent slopes, extremely stony, frequently		İ
	flooded	585	0.1
22A	Comstock silt loam, 0 to 3 percent slopes	124	*
27A	Scott Lake sandy loam, 0 to 3 percent slopes	769	0.1
28B	Haugen-Rosholt complex, 2 to 6 percent slopes, very stony	2,282	0.4
28C	Haugen-Rosholt complex, 6 to 12 percent slopes, very stony	3,345	0.6
38A	Rosholt sandy loam, 0 to 2 percent slopes	198	*
38B	Rosholt sandy loam, 2 to 6 percent slopes	1,080	0.2
38C	Rosholt sandy loam, 6 to 12 percent slopes	839	0.1
38D	Rosholt sandy loam, 12 to 20 percent slopes	184	*
42D	Amery sandy loam, 12 to 25 percent slopes, very stony	2,527	0.4
43B	Antigo silt loam, 1 to 6 percent slopes	212	*
43C	Antigo silt loam, 6 to 15 percent slopes	44	*
63A	Crystal Lake silt loam, 0 to 2 percent slopes	30	*
63B	Crystal Lake silt loam, 2 to 6 percent slopes	55	*
63C	Crystal Lake silt loam, 6 to 12 percent slopes	21	*
64A	Totagatic-Winterfield complex, 0 to 2 percent slopes, frequently flooded	3,287	0.6
59C	Keweenaw-Sayner-Vilas complex, 6 to 15 percent slopes, stony	526	*
69E	Keweenaw-Sayner-Vilas complex, 15 to 45 percent slopes, stony	685	0.1
82B	Cutaway-Branstad complex, 1 to 6 percent slopes	262	*
82C	Cutaway-Branstad complex, 6 to 12 percent slopes	325	*

See footnote at end of table.

Table 2.--Acreage and Proportionate Extent of the Soils--Continued

Map symbol	Soil name	Acres	 Percent
83A	 Smestad loamy fine sand, 0 to 3 percent slopes	3,985	0.7
85B	Taylor loam, 2 to 6 percent slopes	559	*
85C	Taylor loam, 6 to 12 percent slopes	246	*
86A	$\big \mathtt{Indus-Alango} \mathtt{complex}, \mathtt{0} \mathtt{to} \mathtt{2} \mathtt{percent} \mathtt{slopes} \big $	4,488	0.8
89A	$\big \mathtt{Wildwood} \mathtt{muck,} \mathtt{0} \mathtt{to} \mathtt{1} \mathtt{percent} \mathtt{slopes} \big $	2,630	0.5
96B	Karlsborg sand, 1 to 6 percent slopes	2,336	0.4
96C	Karlsborg sand, 6 to 12 percent slopes	1,603	0.3
96D	Karlsborg sand, 12 to 20 percent slopes	1,299	0.2
100B 100C	Menahga sand, 0 to 6 percent slopes Menahga sand, 6 to 12 percent slopes	6,144	1.1
100C	Menahga sand, 12 to 30 percent slopes	6,267 5,895	1.1
100B	Kost fine sand, 0 to 6 percent slopes	498	*
127D	Amery-Rosholt complex, 12 to 20 percent slopes, very stony	3,762	0.7
127E	Amery-Rosholt complex, 12 to 25 percent slopes, very stony	2,032	0.4
151A	Bluffton loam, 0 to 2 percent slopes	1,032	0.2
152A	Alstad loam, 0 to 3 percent slopes	4,266	0.8
154E	Cushing fine sandy loam, 20 to 35 percent slopes	590	0.1
156B	Magnor, very stony-Magnor complex, 0 to 4 percent slopes	2,230	0.4
157B	Freeon, very stony-Freeon complex, 2 to 6 percent slopes	3,412	0.6
157C	Freeon, very stony-Freeon complex, 6 to 12 percent slopes	1,764	0.3
160A	Oesterle sandy loam, 0 to 2 percent slopes	1,233	0.2
165B	Elderon sandy loam, 2 to 6 percent slopes	237	*
185B	Tradelake-Taylor complex, 1 to 6 percent slopes	583	0.1
185C	Tradelake-Taylor complex, 6 to 12 percent slopes	445	*
185D	Tradelake-Taylor complex, 12 to 25 percent slopes	254	*
185E	Tradelake-Taylor complex, 25 to 35 percent slopes	95	*
189A	Siren loam, 0 to 3 percent slopes	1,679	0.3
193A	Minocqua muck, 0 to 2 percent slopes	417	*
337A	Plover fine sandy loam, 0 to 3 percent slopes	953	0.2
368B 368C	Mahtomedi-Cress complex, 2 to 6 percent slopes	964	0.2
368D	Mahtomedi-Cress complex, 6 to 12 percent slopes Mahtomedi-Cress complex, 12 to 25 percent slopes	938 856	0.2
368E	Mahtomedi-Cress complex, 12 to 25 percent slopes	763	0.1
380B	Cress-Rosholt complex, 2 to 6 percent slopes	609	0.1
380C	Cress-Rosholt complex, 6 to 12 percent slopes	937	0.2
380D	Cress-Rosholt complex, 12 to 25 percent slopes	1,323	0.2
383B	Mahtomedi loamy sand, 0 to 6 percent slopes	6,307	1.1
383C	Mahtomedi loamy sand, 6 to 12 percent slopes	5,046	0.9
383D	Mahtomedi loamy sand, 12 to 30 percent slopes	5,604	1.0
392C	\mid Rockmarsh-Dairyland-Makwa, seeped, complex, 2 to 20 percent slopes, very \mid		
	stony	568	0.1
396B	Friendship-Wurtsmith-Grayling complex, 0 to 6 percent slopes	20,895	3.7
397A	Perchlake loamy fine sand, 0 to 2 percent slopes	1,915	0.3
399B	Grayling sand, 0 to 6 percent slopes	46,624	8.3
399C	Grayling sand, 6 to 12 percent slopes Grayling sand, 12 to 30 percent slopes	17,059	3.0
399D 406A	Loxley mucky peat, 0 to 1 percent slopes	11,576 10,402	1.8
407A	Seelyeville and Markey soils, 0 to 1 percent slopes	25,819	4.6
410A	Seelyeville and Cathro soils, 0 to 1 percent slopes	3,244	0.6
419A	Seelyeville, Cathro, and Markey soils, 0 to 1 percent slopes	778	0.1
421A	Dora, Markey, and Seelyeville soils, 0 to 1 percent slopes	3,819	0.7
422A	Seelyeville, Cathro, and Rondeau soils, 0 to 1 percent slopes	1,724	0.3
426B	Emmert-Mahtomedi-Menahga complex, 2 to 6 percent slopes	286	*
426C	Emmert-Mahtomedi-Menahga complex, 6 to 12 percent slopes	329	*
426D	$ {\tt Emmert-Mahtomedi-Menahga\ complex}, {\tt 12\ to\ 30\ percent\ slopes} $	224	*
430A	Freya loamy fine sand, 0 to 3 percent slopes	2,431	0.4
439B	Graycalm-Menahga complex, 0 to 6 percent slopes	20,069	3.6
439C	Graycalm-Menahga complex, 6 to 12 percent slopes	24,108	4.3
439D	Graycalm-Menahga complex, 12 to 30 percent slopes	19,835	3.5
442C	Haugen, very stony-Greenwood complex, 0 to 15 percent slopes	734	0.1
443D	Amery, very stony-Greenwood complex, 0 to 35 percent slopes	728	0.1
459A	Loxley, Daisybay, and Dawson soils, 0 to 1 percent slopes	855	0.2
461A	Bowstring muck, 0 to 1 percent slopes, frequently flooded	12,820	2.3

See footnote at end of table.

Table 2.--Acreage and Proportionate Extent of the Soils--Continued

Map symbol	Soil name	Acres	Percent
465A		3,981	0.7
469E	Bigisland-Milaca complex, 15 to 45 percent slopes, very stony	1,335	0.2
471B	Dairyland-Emmert complex, 0 to 6 percent slopes, very stony	1,788	0.3
471C	Dairyland-Emmert complex, 6 to 15 percent slopes, very stony	555	*
472A	Rockmarsh-Clemens complex, 0 to 2 percent slopes, very stony, frequently		ì
	flooded	974	0.2
473A	Dairyland-Skog complex, 0 to 3 percent slopes, very stony, rarely flooded	1,388	0.2
484A	Greenwood and Beseman soils, 0 to 1 percent slopes	189	*
485C	Lupton and Tawas soils, seeped, 2 to 15 percent slopes	472	*
495B	Karlsborg-Grettum-Perida complex, 1 to 6 percent slopes	2,779	0.5
495C	Karlsborg-Grettum-Perida complex, 6 to 12 percent slopes	4,328	0.8
495D	Karlsborg-Grettum-Perida complex, 12 to 30 percent slopes	3,117	0.6
496B	Karlsborg loamy sand, 1 to 6 percent slopes	3,176	0.6
496C	Karlsborg loamy sand, 6 to 12 percent slopes	1,593	0.3
496D	Karlsborg loamy sand, 12 to 30 percent slopes	549	*
497A	Meenon loamy sand, 0 to 3 percent slopes	5,441	1.0
521A	Dody muck, 0 to 2 percent slopes	797	0.1
523A	Nokasippi muck, 0 to 1 percent slopes	277	*
529B	Perida sand, 0 to 4 percent slopes	2,158	0.4
531A	Stengel loamy sand, 0 to 3 percent slopes	1,699	0.3
542B	Haugen, very stony-Haugen complex, 2 to 6 percent slopes	3,940	0.7
542C	Haugen, very stony-Haugen complex, 6 to 12 percent slopes	3,757	0.7
544F	Menahga and Mahtomedi soils, 30 to 45 percent slopes	6,944	1.2
553B	Branstad fine sandy loam, 2 to 6 percent slopes	5,377	1.0
553C	Branstad fine sandy loam, 6 to 12 percent slopes	3,023	0.5
553D	Branstad fine sandy loam, 12 to 20 percent slopes	1,897	0.3
555A	Fordum silt loam, 0 to 2 percent slopes, frequently flooded	817	0.1
557B 557C	Shawano fine sand, 0 to 6 percent slopes	6,157 2,754	1.1
557D	Shawano fine sand, 6 to 12 percent slopes Shawano fine sand, 12 to 30 percent slopes	1,132	0.5
586A	Chelmo sandy loam, 0 to 2 percent slopes	500	*
600A	Haplosaprists and Psammaquents, 0 to 2 percent slopes	275	*
615B	Cress sandy loam, 0 to 6 percent slopes	2,825	0.5
615C	Cress sandy loam, 6 to 12 percent slopes	2,538	0.5
615D	Cress sandy loam, 12 to 30 percent slopes	1,403	0.2
620C	Lundeen-Haustrup-Rock outcrop complex, 2 to 12 percent slopes, very stony	10	*
621A	Bjorkland peat, 0 to 2 percent slopes	1,966	0.3
623A	Capitola muck, 0 to 2 percent slopes, very stony	387	*
624A	Ossmer silt loam, 0 to 3 percent slopes	56	*
631A	Giese muck, 0 to 1 percent slopes, very stony	270	*
632A	Aftad fine sandy loam, 0 to 2 percent slopes	273	*
632B	Aftad fine sandy loam, 2 to 6 percent slopes	804	0.1
632C	Aftad fine sandy loam, 6 to 12 percent slopes	147	*
634C	Drylanding-Beartree complex, 0 to 12 percent slopes, rocky	49	*
635C	Drylanding-Beartree complex, 0 to 12 percent slopes, rocky, rarely		
	flooded	119	*
648B	Sconsin silt loam, 1 to 6 percent slopes	143	*
669D	Fremstadt, stony-Pomroy complex, 15 to 30 percent slopes	3,037	0.5
671B	Spoonerhill, stony-Spoonerhill complex, 2 to 6 percent slopes	330	*
706A	Winterfield-Totagatic complex, 0 to 2 percent slopes, frequently flooded	1,568	0.3
715A	Mora silt loam, 0 to 3 percent slopes, very stony	65	*
717B	Milaca silt loam, 3 to 6 percent slopes, very stony	319	*
717C 720F	Milaca silt loam, 6 to 12 percent slopes, very stony	83	*
	stony	87	*
726B	Sissabagama loamy sand, 0 to 6 percent slopes	1,273	0.2
742B	Milaca sandy loam, 2 to 6 percent slopes, very stony	2,050	0.4
742C	Milaca sandy loam, 6 to 12 percent slopes, very stony	580	0.1
742D	Milaca sandy loam, 12 to 20 percent slopes, very stony	124	*

See footnote at end of table.

Table 2.--Acreage and Proportionate Extent of the Soils--Continued

Map symbol	Soil name	Acres	Percent
			i
755A	Moppet, occasionally flooded-Fordum, frequently flooded, complex, 0 to 3		į .
	percent slopes	106	*
771A	Lenroot loamy sand, 0 to 3 percent slopes	80	*
812B	Mora sandy loam, 0 to 4 percent slopes, very stony	755	0.1
825A	Meehan sand, 0 to 2 percent slopes	1,263	0.2
896A	Wurtsmith sand, 0 to 3 percent slopes	223	*
980A	Soderbeck very gravelly loam, 0 to 2 percent slopes, very stony, rarely		!
	flooded	130	*
1070C	Fremstadt, stony-Cress complex, 6 to 15 percent slopes	298	*
1070D	Fremstadt, stony-Cress complex, 15 to 30 percent slopes	260	*
1080B	Spoonerhill-Spoonerhill, stony-Cress complex, 1 to 6 percent slopes	134	*
2002	Udorthents, earthen dams	1	*
2015	Pits	287	*
2050	Landfill	2	*
3011A	Barronett silt loam, 0 to 2 percent slopes	76	*
3082E	Braham-Shawano complex, 12 to 35 percent slopes	92	*
3114A	Saprists, Aquents, and Aquepts, 0 to 1 percent slopes, ponded, flooded	18,671	3.3
3125A	Meehan loamy sand, 0 to 2 percent slopes	3,409	0.6
3126A	Wurtsmith loamy sand, 0 to 3 percent slopes	4,620	0.8
3312B	Glendenning, very stony-Glendenning complex, 0 to 4 percent slopes	2,356	0.4
3336A	Fenander fine sandy loam, 0 to 2 percent slopes	156	*
3403A	Loxley, Beseman, and Dawson soils, 0 to 1 percent slopes	1,501	0.3
3429B	Lara loamy fine sand, 0 to 6 percent slopes	563	0.1
3429C	Lara loamy fine sand, 6 to 12 percent slopes	108	*
3446A	Newson muck, 0 to 2 percent slopes	4,754	0.8
3448B	Grettum loamy sand, 0 to 6 percent slopes	22,625	4.0
3448C	Grettum loamy sand, 6 to 12 percent slopes	8,018	1.4
3510B	Pomroy-Fremstadt-Fremstadt, stony, complex, 1 to 6 percent slopes	7,039	1.3
3510C	Pomroy-Fremstadt-Fremstadt, stony, complex, 6 to 15 percent slopes	4,118	0.7
3511A	Bushville loamy sand, 0 to 3 percent slopes	1,218	0.2
3516A	Slimlake sandy loam, 0 to 3 percent slopes	404	*
3625A	Lino loamy fine sand, 0 to 2 percent slopes	2,113	0.4
3626A	Crex loamy fine sand, 0 to 3 percent slopes	7,078	1.3
3629B	Perida loamy sand, 0 to 4 percent slopes	1,634	0.3
3636B	Plainbo sand, 2 to 6 percent slopes	47	*
3636C	Plainbo sand, 6 to 12 percent slopes	12	*
M-W	Miscellaneous water	17	*
W	Water	40,509	7.2
	Total	562,733	100.0

^{*} Less than 0.1 percent.

Use and Management of the Soils

This soil survey is an inventory and evaluation of the soils in the survey area. It can be used to adjust land uses to the limitations and potentials of natural resources and the environment. Also, it can help to prevent soil-related failures in land uses.

In preparing a soil survey, soil scientists, conservationists, engineers, and others collect extensive field data about the nature and behavioral characteristics of the soils. They collect data on erosion, droughtiness, flooding, and other factors that affect various soil uses and management. Field experience and collected data on soil properties and performance are used as a basis in predicting soil behavior.

Information in this section can be used to plan the use and management of soils for crops and pasture; as forest land; as sites for buildings, sanitary facilities, highways and other transportation systems, and parks and other recreational facilities; as sites for agricultural waste management; and as wildlife habitat. It can be used to identify the potentials and limitations of each soil for specific land uses and to help prevent construction failures caused by unfavorable soil properties.

Planners and others using soil survey information can evaluate the effect of specific land uses on productivity and on the environment in all or part of the survey area. The survey can help planners to maintain or create a land use pattern in harmony with the natural soil.

Contractors can use this survey to locate sources of sand and gravel, roadfill, and topsoil. They can use it to identify areas where bedrock, wetness, or very firm soil layers can cause difficulty in excavation.

Health officials, highway officials, engineers, and others may also find this survey useful. The survey can help them plan the safe disposal of wastes and locate sites for pavements, sidewalks, campgrounds, playgrounds, lawns, and trees and shrubs.

Interpretive Ratings

The interpretive tables in this survey rate the soils in the survey area for various uses. Many of the tables identify the limitations that affect specified uses and indicate the severity of those limitations. The ratings in these tables are both verbal and numerical.

Rating Class Terms

Rating classes are expressed in the tables in terms that indicate the extent to which the soils are limited by all of the soil features that affect a specified use or in terms that indicate the suitability of the soils for the use. Thus, the tables may show limitation classes or suitability classes. Terms for the limitation classes are *not limited*, *somewhat limited*, and *very limited*. The suitability ratings are expressed as *well suited*, *moderately suited*, *poorly suited*, and *unsuited* or as *good*, *fair*, *poor*, and *very poor*.

Numerical Ratings

Numerical ratings in the tables indicate the relative severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate

gradations between the point at which a soil feature has the greatest negative impact on the use and the point at which the soil feature is not a limitation. The limitations appear in order from the most limiting to the least limiting. Thus, if more than one limitation is identified, the most severe limitation is listed first and the least severe one is listed last.

Crops and Pasture

General management needed for crops and for hay and pasture is suggested in this section. Climate information for the survey area is provided, the estimated yields of the main crops and hay and pasture plants are listed, the system of land capability classification used by the Natural Resources Conservation Service is explained, and prime farmland is described. Planners of management systems for individual fields or farms should consider obtaining specific information from the local office of the Natural Resources Conservation Service or the Cooperative Extension Service.

Climate

Table 3 gives data on temperature and precipitation for the survey area as recorded at Grantsburg during the period from 1971 to 2000. Table 4 shows probable dates of the first freeze in fall and the last freeze in spring. Table 5 provides data on length of the growing season.

In winter, the average temperature is 13.2 degrees F and the average daily minimum temperature is 2.6 degrees. The lowest temperature on record, which occurred on January 14, 1965, is -44 degrees. In summer, the average temperature is 66.7 degrees and the average daily maximum temperature is 78.1 degrees. The highest temperature, which occurred on July 7, 1988, is 100 degrees.

Growing degree days are shown in table 3. They are equivalent to "heat units." During the month, growing degree days accumulate by the amount that the average temperature each day exceeds a base temperature (40 degrees F). The normal monthly accumulation is used to schedule single or successive plantings of a crop between the last freeze in spring and the first freeze in fall.

The total annual precipitation is 31.82 inches. Of this total, 20.28 inches, or about 64 percent, usually falls in May through September. The growing season for most crops falls within this period. The heaviest 1-day rainfall during the period of record was 5.58 inches on August 31, 1973. Thunderstorms occur on about 35 days each year, and most occur between late May and early September.

The average seasonal snowfall is 51.6 inches. The greatest snow depth at any one time during the period of record was 35 inches recorded on March 5, 1979. On an average, 59 days per year have at least 1 inch of snow on the ground. The heaviest 1-day snowfall on record was 17 inches on December 28, 1982.

The average relative humidity in midafternoon is about 50 percent in May and 70 percent in December. Humidity is higher at night, and the average at dawn is about 80 percent in most months. The sun shines approximately 65 percent of the time possible in summer and about 50 percent in winter. The prevailing wind is from the northwest from October through April and from the south the rest of the year. Average windspeed is highest, around 12 miles per hour, in April.

Cropland Management Considerations

The management concerns affecting the use of the soil map units in the survey area for crops are shown in table 6. The main concerns in managing nonirrigated cropland are conserving moisture, controlling wind erosion and water erosion, and maintaining soil fertility.

Conserving moisture consists primarily of reducing the evaporation and runoff rates and increasing the water infiltration rate. Applying conservation tillage and conservation cropping systems, farming on the contour, stripcropping, establishing field windbreaks, and leaving crop residue on the surface conserve moisture.

Generally, a combination of several practices is needed to control *wind erosion* and *water erosion*. Conservation tillage, stripcropping, field windbreaks, contour farming, conservation cropping systems, crop residue management, terraces, diversions, and grassed waterways help to prevent excessive soil loss.

Measures that are effective in maintaining *soil fertility* include applying fertilizer, both organic and inorganic, including manure; incorporating crop residue or green manure crops into the soil; and using proper crop rotations. Controlling erosion helps to prevent the loss of organic matter and plant nutrients and thus helps to maintain productivity, although the level of fertility can be reduced even in areas where erosion is controlled. All soils used for nonirrigated crops respond well to applications of fertilizer.

Some of the considerations shown in the table cannot be easily overcome. These are channels, flooding, gullies, and ponding.

Additional considerations are as follows:

Lime content, limited available water capacity, limited content of organic matter, potential poor tilth and compaction, and restricted permeability.—These limitations can be minimized by incorporating green manure crops, manure, or crop residue into the soil; applying a system of conservation tillage; and using conservation cropping systems. Also, crops may respond well to additions of phosphate fertilizer to soils that have a high content of lime.

Potential for ground-water contamination.—The proper use of nutrients and pesticides can reduce the risk of ground-water contamination.

Potential for surface-water contamination.—The risk of surface-water contamination can be reduced by the proper use of nutrients and pesticides and by conservation farming practices that reduce the runoff rate.

Surface crusting.—This limitation retards seedling development after periods of heavy rainfall.

Surface rock fragments.—This limitation causes rapid wear of tillage equipment. It cannot be easily overcome.

Surface stones.—Stones or boulders on or near the surface can hinder normal tillage unless they are removed.

Salt content.—In areas where this is a limitation, only salt-tolerant crops should be grown.

On irrigated soils the main management concerns are efficient water use, nutrient management, control of erosion, pest and weed control, and timely planting and harvesting for a successful crop. An irrigation system that provides optimum control and distribution of water at minimum cost is needed. Overirrigation wastes water, leaches plant nutrients, and causes erosion. Also, it can increase wetness and soil salinity.

Explanation of Criteria

Acid soil.—The pH is less than 6.1.

Channeled.—The word "channeled" is included in the map unit name.

Dense layer.—The bulk density is 1.80 g/cc or greater within the soil profile.

Depth to rock.—The depth to bedrock is less than 40 inches.

Eroded.—The word "eroded" is included in the map unit name.

Excessive permeability.—Saturated hydraulic conductivity is 42 micrometers per second or more within the soil profile.

Flooding.—Flooding is occasional, frequent, or very frequent.

Gullied.—The word "gullied" is included in the map unit name.

High content of organic matter.—The surface layer has more than 20 percent organic matter.

Lime content.—The pH is 7.4 or more in the surface layer, or the wind erodibility group is 4L.

Limited available water capacity.—The available water capacity calculated to a depth of 60 inches or to a root-limiting layer is 6 inches or less.

Limited content of organic matter.—The content of organic matter is 2 percent or less in the surface layer.

Ponding.—Ponding duration is assigned to the soil. Water is above the surface. Potential poor tilth and compaction.—The content of clay is 27 percent or more in the surface layer.

Potential for ground-water contamination (by nutrients or pesticides).—The depth to a zone in which the soil moisture status is wet is 4 feet or less, the saturated hydraulic conductivity of any layer is more than 42 micrometers per second, or the depth to bedrock is less than 60 inches.

Potential for surface-water contamination (by nutrients or pesticides).—The soil is occasionally, frequently, or very frequently flooded, is subject to ponding, is assigned to hydrologic group C or D and has a slope of more than 2 percent, is assigned to hydrologic group A and has a slope of more than 6 percent, or is assigned to hydrologic group B, has a slope of 3 percent or more, and has a K factor of more than 0.17.

Previously eroded.—The word "eroded" is included in the map unit name. Restricted permeability.—Saturated hydraulic conductivity is less than 0.42 micrometer per second within the soil profile.

Salt content.—The electrical conductivity is 4 or more in the surface layer or 8 or more within a depth of 30 inches.

Slope (equipment limitation).—The slope is more than 15 percent.

Surface crusting.—The content of clay is 27 percent or more and the content of organic matter is 2 percent or less in the surface layer.

Surface rock fragments (equipment limitation).—The terms describing the texture of the surface layer include any rock fragment modifier, except for gravelly, channery, stony, very stony, extremely stony, bouldery, very bouldery, and extremely bouldery.

Surface stones (equipment limitation).—The word "stony" or "bouldery" is included in the description of the surface layer, or 0.01 percent or more of the surface is covered by boulders.

Water erosion.—Either the slope is 6 percent or more, or the slope is more than 3 percent and less than 6 percent and the surface layer is not sandy.

Wet soil moisture status.—A zone in which the soil moisture status is wet is within 2.5 feet of the surface.

Wind erosion.—The wind erodibility group is 1, 2, 3, or 4L.

Hydrologic groups are described under the heading "Water Features." Erosion factors (e.g., K factor) and wind erodibility groups are described under the heading "Physical Properties."

Crop Yield Estimates

The average yields per acre that can be expected of the principal crops and hay and pasture plants under a high level of management are shown in tables 7a and 7b. In any given year, yields may be higher or lower than those indicated in the tables because of variations in rainfall and other climatic factors. The land capability classification of map units in the survey area also is shown in tables 7a and 7b.

The yields are based mainly on the experience and records of farmers, conservationists, and extension agents. Available yield data from nearby counties and results of field trials and demonstrations also are considered.

The management needed to obtain the indicated yields of the various crops depends on the kind of soil and the crop. Management can include drainage, erosion control, and protection from flooding; the proper planting and seeding rates; suitable high-yielding crop varieties; appropriate and timely tillage; control of weeds, plant diseases, and harmful insects; favorable soil reaction and optimum levels of nitrogen, phosphorus, potassium, and trace elements for each crop; effective use of crop residue, barnyard manure, and green manure crops; and harvesting that ensures the smallest possible loss.

The estimated yields reflect the productive capacity of each soil for each of the principal crops. Yields are likely to increase as new production technology is developed. The productivity of a given soil compared with that of other soils, however, is not likely to change.

Crops other than those shown in the tables are grown in the survey area, but estimated yields are not listed because the acreage of such crops is small. The local office of the Natural Resources Conservation Service or the Cooperative Extension Service can provide information about the management and productivity of the soils for those crops.

Pasture and Hayland Interpretations

Under good management, proper grazing is essential for the production of high-quality forage, stand survival, and erosion control. Proper grazing helps plants to maintain sufficient and generally vigorous top growth during the growing season. Brush control is essential in many areas, and weed control generally is needed. Rotation grazing and pasture renovation also are important management practices.

Yield estimates are often provided in animal unit months (AUM), or the amount of forage or feed required to feed one animal unit (one cow, one horse, one mule, five sheep, or five goats) for 30 days.

The local office of the Natural Resources Conservation Service or the Cooperative Extension Service can provide information about forage yields other than those shown in the yields tables.

Land Capability Classification

Land capability classification shows, in a general way, the suitability of soils for most kinds of field crops. Crops that require special management are excluded. The soils are grouped according to their limitations for field crops, the risk of damage if they are used for crops, and the way they respond to management. The criteria used in grouping the soils do not take into account major and generally expensive landforming that would change slope, depth, or other characteristics of the soils, nor do they include possible but unlikely major reclamation projects. Capability classification is not a substitute for interpretations designed to show suitability and limitations of groups of soils for forest land or for engineering purposes.

In the capability system, soils generally are grouped at three levels—capability class, subclass, and unit (USDA, 1961). These categories indicate the degree and kinds of limitations affecting mechanized farming systems that produce the more commonly grown field crops, such as corn, small grain, cotton, hay, and field-grown vegetables. Only class and subclass are used in this survey.

Capability classes, the broadest groups, are designated by the numbers 1 through 8. The numbers indicate progressively greater limitations and narrower choices for practical use.

If properly managed, soils in classes 1, 2, 3, and 4 are suitable for the mechanized production of commonly grown field crops and for pasture and forest land. The degree of the soil limitations affecting the production of cultivated crops increases

progressively from class 1 to class 4. The limitations can affect levels of production and the risk of permanent soil deterioration caused by erosion and other factors.

Soils in classes 5, 6, and 7 are generally not suited to the mechanized production of commonly grown field crops without special management, but they are suitable for plants that provide a permanent cover, such as grasses and trees. The severity of the soil limitations affecting crops increases progressively from class 5 to class 7.

Areas in class 8 are generally not suitable for crops, pasture, or forest land without a level of management that is impractical. These areas may have potential for other uses, such as recreational facilities and wildlife habitat.

Capability subclasses identify the dominant kind of limitation in the class. They are designated by adding a small letter, e, w, s, or c, to the class numeral, for example, 2e. The letter e shows that the main hazard is the risk of erosion unless a close-growing plant cover is maintained; w shows that water in or on the soil interferes with plant growth or cultivation (in some soils the wetness can be partly corrected by artificial drainage); s shows that the soil is limited mainly because it is shallow, droughty, or stony; and c, used in only some parts of the United States, shows that the chief limitation is climate that is very cold or very dry.

There are no subclasses in class 1 because the soils of this class have few limitations. Class 5 contains only the subclasses indicated by *w, s,* or *c* because the soils in class 5 are subject to little or no erosion. They have other limitations that restrict their use mainly to pasture, forest land, wildlife habitat, or recreation.

The capability classification of map units in the survey area is given in tables 7a and 7b.

Prime Farmland

Prime farmland is of major importance in meeting the Nation's short- and long-range needs for food and fiber. The acreage of high-quality farmland is limited, and the U.S. Department of Agriculture recognizes that government at local, State, and Federal levels, as well as individuals, must encourage and facilitate the wise use of our Nation's prime farmland.

Prime farmland soils, as defined by the U.S. Department of Agriculture, are soils that are best suited to food, feed, forage, fiber, and oilseed crops. Such soils have properties that favor the economic production of sustained high yields of crops. The soils need only to be treated and managed by acceptable farming methods. An adequate moisture supply and a sufficiently long growing season are required. Prime farmland soils produce the highest yields with minimal expenditure of energy and economic resources, and farming these soils results in the least damage to the environment.

Prime farmland soils may presently be used as cropland, pasture, or forest land or for other purposes. They either are used for food and fiber or are available for these uses. Urban or built-up land, public land, and water areas cannot be considered prime farmland. Urban or built-up land is any contiguous unit of land 10 acres or more in size that is used for such purposes as housing, industrial, and commercial sites, sites for institutions or public buildings, small parks, golf courses, cemeteries, railroad yards, airports, sanitary landfills, sewage treatment plants, and water-control structures. Public land is land not available for farming in national forests, national parks, military reservations, and state parks.

Prime farmland soils commonly receive an adequate and dependable supply of moisture from precipitation or irrigation. The temperature and growing season are favorable, and the level of acidity or alkalinity and the content of salts and sodium are acceptable. The soils have few, if any, rocks and are permeable to water and air. They are not excessively erodible or saturated with water for long periods, and they are not frequently flooded during the growing season or are protected from flooding. Slopes range mainly from 0 to 6 percent.

Soils that have a saturated zone high in the profile or soils that are subject to flooding may qualify as prime farmland where these limitations are overcome by drainage measures or flood control. Onsite evaluation is necessary to determine the effectiveness of corrective measures. More information about the criteria for prime farmland can be obtained at the local office of the Natural Resources Conservation Service.

A recent trend in land use has been the conversion of prime farmland to urban and industrial uses. The loss of prime farmland to other uses puts pressure on lands that are less productive than prime farmland.

About 51,472 acres, or about 9 percent of the survey area, meets the requirements for prime farmland.

The map units in the survey area that meet the requirements for prime farmland are listed in table 8. This list does not constitute a recommendation for a particular land use. The location of each map unit is shown on the soil maps. The soil qualities that affect use and management are described in the section "Soil Map Unit Descriptions."

Conservation Tree/Shrub Suitability Groups

Conservation tree/shrub suitability groups consist of soils in which the kinds and degrees of the hazards and limitations that affect the survival and growth of trees and shrubs in conservation plantings are about the same. The conservation tree/shrub suitability groups assigned to the soils in the survey area are listed in table 9. Descriptions of the groups are provided in the "National Forestry Manual," which is available in local offices of the Natural Resources Conservation Service or on the Internet.

Forest Land Management

Information about the hazards and limitations that should be considered in areas used as forest land is given in tables 10 through 13.

Forest Land Harvest Equipment Considerations

Table 10 provides information regarding the use of harvest equipment in areas used as forest land.

For most soils spring is the most limiting season. Alternate thawing and freezing during snowmelt cause saturation and low strength of the surface soil layers. When thawing is complete, saturation continues for short periods in well drained soils to nearly all year in very poorly drained soils in depressions. Degrees of wetness are generally proportionate to the depth at which a zone of saturation occurs. This zone generally is lower in summer during the heavy use of moisture by vegetation and is nearer the surface during periods when absorbed precipitation is greater than the vegetation requires. Harvesting during periods of saturation usually results in severe soil damage, except when the soil is frozen. The preferred season for timber harvest on many soils is winter, when wetness and low soil strength can be overcome by freezing.

Considerations shown in table 10 are as follows:

Slope.—The upper slope limit is more than 15 percent.

Flooding.—The soil is frequently flooded.

Wetness.—The soil is somewhat poorly drained, poorly drained, or very poorly drained or has a perched zone in which the soil moisture status is wet (any drainage class).

Depth to hard rock.—The depth to hard bedrock is less than 10 inches. Rubbly surface.—The word "rubbly" is in the map unit name.

Surface stones.—The words "extremely stony" are in the map unit name.

Surface boulders.—The word "bouldery" is in the map unit name.

Areas of rock outcrop.—Rock outcrop is a named component in the map unit.

Susceptible to rutting and wheel slippage (low strength).—The AASHTO classification is A-6, A-7, or A-8 in any layer at a depth of 20 inches or less.

Poor traction (loose sandy material).—The USDA texture includes sands or loamy sands in any layer at a depth of 10 inches or less.

Forest Haul Road Considerations

Table 11 provides information regarding the use of the soils as haul roads. Haul roads serve as transportation routes from log landings to primary roads. Generally, haul roads are unpaved, but some are graveled.

Considerations shown in the table are as follows:

Slope.—The slope is 8 percent or more.

Flooding.—The soil is frequently flooded.

Wetness.—The soil is somewhat poorly drained, poorly drained, or very poorly drained or has a perched zone in which the soil moisture status is wet (any drainage class).

Depth to hard rock.—The depth to hard bedrock is less than 20 inches.

Depth to soft rock.—The depth to soft bedrock is less than 20 inches.

Surface boulders.—The word "bouldery" is in the map unit name.

Areas of rock outcrop.—Rock outcrop is a named component in the map unit.

Low bearing strength.—The AASHTO classification is A-6, A-7, or A-8 in any layer at a depth of 20 inches or less.

Rubbly surface.—The word "rubbly" is in the map unit name.

Forest Log Landing Considerations

Table 12 provides information regarding the use of the soils as log landings. Log landings are areas where logs are assembled for transportation. Areas that require little or no cutting, filling, or surface preparation are desired.

Considerations shown in the table are as follows:

Slope.—The slope is more than 3 percent.

Flooding.—The soil is occasionally flooded or frequently flooded.

Wetness.—The soil is somewhat poorly drained, poorly drained, or very poorly drained or has a perched zone in which the soil moisture status is wet (any drainage class).

Surface boulders.—The word "bouldery" is in the map unit name.

Areas of rock outcrop.—Rock outcrop is a named component in the map unit.

Susceptible to rutting and wheel slippage (low strength).—The AASHTO

classification is A-6, A-7, or A-8 in any layer at a depth of 20 inches or less.

Rubbly surface.—The word "rubbly" is in the map unit name.

Forest Land Site Preparation and Planting Considerations

Table 13 provides information regarding considerations affecting site preparation and planting in areas used as forest land.

Considerations shown in the table are as follows:

Slope.—The upper slope limit is more than 15 percent.

Flooding.—The soil is frequently flooded.

Wetness.—The soil is somewhat poorly drained, poorly drained, or very poorly drained or has a perched zone in which the soil moisture status is wet (any drainage class).

Depth to hard rock.—The depth to hard bedrock is less than 20 inches.

Surface stones.—The word "stony" is in the map unit name.

Surface boulders.—The word "bouldery" is in the map unit name.

Areas of rock outcrop.—Rock outcrop is a named component in the map unit.

Water erosion.—The slope is 8 percent or more.

Potential poor tilth and compaction.—The AASHTO classification is A-6 or A-7 in the upper 10 inches.

Rubbly surface.—The word "rubbly" is in the map unit name.

Cobbly surface.—The word "cobbly" is in the map unit name.

Forest Habitat Types

Joseph A. Kovach, forest ecologist/silviculturist, Division of Forestry, Wisconsin Department of Natural Resources, helped prepare this section.

The forest habitat type classification system (FHTCS) is a site classification system based on the floristic composition of plant communities. The system depends on the identification of potential climax associations, repeatable patterns in the composition of the understory vegetation, and differential understory species. It groups land units with similar capacity to produce vegetation. The floristic composition of the plant community is used as an integrated indicator of those environmental factors that affect species reproduction, growth, competition, and community development. This classification system enables the recognition of ecologically similar landscape units and vegetation communities. It is a system for classifying forest plant communities and the sites on which they develop.

A forest habitat type is an aggregation of sites (units of land) capable of producing similar late-successional (potential climax) forest plant communities. Each recognizable habitat type represents a relatively narrow segment of environmental variation that is characterized by a certain limited potential for vegetation development. Although at any given time a habitat type can support a variety of disturbance-induced (seral) plant communities, the ultimate product of succession is presumed to be a similar climax community. Field identification of a habitat type provides a convenient label (habitat type name) for a given site and places that site in the context of a larger group of sites that share similar ecological traits.

Forest habitat types are characterized by plant associations, not by individual indicator species. Differential (diagnostic) species combinations in the understory flora are used to identify habitat types at any successional stage, but these combinations have meaning only in the context of the specific habitat types or groups being compared.

The forest habitat types in Burnett County can be identified and interpreted using Field Guide to Forest Habitat Types of Northern Wisconsin, 2nd edition (Kotar and others, 2002). The guide provides keys to habitat type identification based on the presence or absence of differential understory species; describes the characteristic understory species composition, the common forest cover types, and the expected successional trends; and summarizes management implications for each habitat type. Management considerations include inherent site capability (biological potential), potential responses to disturbance, competition, successional trends, potential cover types, and expected suitability and productivity for specific tree species. Additional interpretive information is available in Wisconsin Forest Statistics, 1996: Analysis by Habitat Type Class (Kotar and others, 1999).

Although soil map units do not coincide exactly with habitat types, there is a strong correlation between them. Soil moisture and nutrient regimes are key factors determining habitat type occurrence. Habitat types for the soils in Burnett County are shown in table 14. A single habitat type is considered *dominant* if it constitutes more than 60 percent coverage (one habitat type that has more than 60 percent

occurrence). If no habitat types are dominant but two types with 25 to 59 percent occurrence add up to more than 70 percent, then they would be considered *codominant*. A *common* habitat type is listed when the expected frequency of occurrence is 15 to 55 percent and the requirements for identification as codominant are not met.

The following paragraphs briefly describe the habitat types in the county. The types are listed in the following order: dry and nutrient-poor sites; mesic and nutrient-rich sites; wet-mesic sites (nutrient rich to nutrient poor); and wet sites.

Region 1 Habitat Types (predominant in Burnett County)

PQGCe—Pinus strobus-Quercus spp./Gaultheria procumbens-Ceanothus americanus habitat type. The common name is Eastern white pine-Oaks/Wintergreen-New Jersey tea. The presumed potential climax overstory is dominated by eastern white pine and oaks (white oak, bur oak, northern red oak, and northern pin oak). Currently, common cover types include any mixture of jack pine, red pine, northern pin oak, and northern red oak. Aspen is an occasional dominant or associate, whereas bur oak and white oak are occasional associates. The dominant ground flora commonly includes grasses and sedges, hazelnut, blueberry, blackberries, juneberry, wild rose, bracken fern, wild lily-of-the-valley, wintergreen, northern bedstraw, and oak seedlings.

The moisture regime is dry, and the nutrient regime is poor. The pines (jack pine, red pine, and white pine) exhibit moderate potential productivity. The timber productivity of other species is relatively poor, but the oaks do provide abundant mast for wildlife.

This habitat type is common on outwash plains throughout the county.

PQGCe(Ap)—Amorpha canescens (leadplant) phase. This phase is identified by the presence of leadplant or bluebell. It appears to be associated with a historically distinct fire disturbance regime. It occurs on outwash plains in the southwest corner of the county.

QAp—Quercus spp./Amorpha canescens habitat type. The common name is Oaks/Leadplant. The presumed potential climax overstory is dominated by oaks (white oak, bur oak, northern red oak, and northern pin oak) and perhaps eastern white pine. Currently, common cover types include any mixture of jack pine and pin oak. Frequent associates and occasional dominants include northern red oak, bur oak, white oak, aspen, and red pine. The dominant ground flora frequently includes grasses and sedges, hazelnut, chokecherry, juneberry, blackberries, blueberry, wild rose, leadplant, poison ivy, wild lily-of-the-valley, wild columbine, and oak seedlings. Bracken fern is abundant in some places.

The moisture regime is dry, and the nutrient regime is poor or medium. The pines (jack pine, red pine, and white pine) exhibit good potential productivity, but regeneration of jack pine can be difficult because of intense shrub competition. Oaks and aspen demonstrate only moderate productivity, but the oaks do provide abundant mast for wildlife.

This habitat type occurs on outwash plains in the southwest corner of the county. PArVAm—Pinus strobus-Acer rubrum/Vaccinium angustifolium-Amphicarpa bracteata habitat type. The common name is Eastern white pine-Red maple/ Blueberry-Hog peanut. The presumed potential climax overstory is dominated by eastern white pine, red maple, northern red oak, and white oak. Currently, common cover types include any mixture of aspen, white oak, red oak, and red maple. Overstory associates include white birch, northern pin oak, bur oak, white pine, red pine, and jack pine. The dominant ground flora commonly includes grasses and sedges, hazelnut, juneberry, blackberries, blueberry, bracken fern, bigleaf aster, hog peanut, wild sarsaparilla, and red maple seedlings.

The moisture regime is dry or dry-mesic, and the nutrient regime is poor or medium. All of the pines exhibit excellent potential productivity, but intense competition often limits opportunities for the establishment and maintenance of jack pine. Aspen and paper birch can exhibit good growth and productivity, but the oaks and red maple demonstrate only moderate productivity.

This habitat type is most common on outwash plains throughout the county, but it also occurs on moraines and glacial lake plains.

PArVAm(Ap)—Amorpha canescens (leadplant) phase. This phase is identified by the presence of leadplant or bluebell. It occurs only in the western part of the county. It appears to be associated with a historically distinct fire disturbance regime.

AVDe—Acer saccharum/Vaccinium angustifolium-Desmodium glutinosum habitat type. The common name is Sugar maple/Blueberry-Pointed-leaved tick trefoil. The presumed potential climax overstory is dominated by sugar maple, red maple, American basswood, and white ash but may also include northern red oak, white oak, and eastern white pine. Currently, common cover types include any mixture of aspen, white oak, red oak, and red maple. Overstory associates include sugar maple, basswood, white pine, and white birch. The dominant ground flora commonly includes grasses and sedges, maple-leaved viburnum, hazelnut, blackberries, bracken fern, bigleaf aster, pointed-leaved tick trefoil, hog peanut, wild sarsaparilla, interrupted fern, ironwood, and red maple and sugar maple seedlings.

The moisture regime is dry-mesic, and the nutrient regime is medium. Trees exhibiting excellent potential productivity include white pine, red pine, white birch, and aspen. Also, white oak, red oak, and red maple can exhibit good growth and productivity. The mesic hardwoods (sugar maple, basswood, and white ash) offer only moderate to poor potential productivity.

This habitat type is common on rolling moraines and outwash plains in the southern part of the county and on stream terraces along the St. Croix River.

AAt—Acer saccharum/Athyrium filix-femina habitat type. The common name is Sugar maple/Lady fern. The presumed potential climax overstory is dominated by sugar maple, basswood, white ash, and red maple. Currently, common cover types include any mixture of northern red oak, white oak, red maple, sugar maple, and aspen. Common overstory associates include American basswood, white ash, eastern white pine, and white birch. The dominant ground flora commonly includes grasses and sedges, sugar maple seedlings, ironwood seedlings, hazelnut, bigleaf aster, hog peanut, pointed-leaved tick trefoil, lady fern, interrupted fern, bracken fern, early meadow rue, sweet cicely, trilliums, sessile-leaved bellwort, wild sarsaparilla, and maple-leaved viburnum.

The moisture regime is dry-mesic, and the nutrient regime is medium or rich. Mesic hardwoods (sugar maple, basswood, white ash, and red maple) are very competitive, and potential productivity is good. Red oak, white oak, and white pine demonstrate excellent productivity but require significant disturbance for successful regeneration. Following severe disturbance, aspen and paper birch can demonstrate excellent productivity as pioneers.

This habitat type is common on moraines and outwash plains in the southern part of the county.

ACaCi—Acer saccharum/Caulophyllum thalictroides-Circaea quadrisulcata habitat type. The common name is Sugar maple/Blue cohosh-Enchanter's nightshade. The presumed potential climax overstory is dominated by sugar maple, American basswood, and white ash. Currently, common cover types include any mixture of sugar maple, northern red oak, white oak, and aspen. Common associates are red maple, basswood, white ash, black cherry, and white birch. The dominant ground flora commonly includes grasses and sedges, sugar maple seedlings, bigleaf aster, wild geranium, sweet cicely, lady fern, early meadow rue, trilliums, yellow violets, enchanter's nightshade, hog peanut, maidenhair fern, and black snakeroot.

The moisture regime is mesic or dry-mesic, and the nutrient regime is rich. Most tree species can exhibit excellent growth and productivity on these sites if establishment opportunities exist and competition is controlled. Northern hardwoods demonstrate excellent productive potential and competitive advantages. Oaks commonly are present but require aggressive management (significant disturbance) for regeneration.

This habitat type is common on moraines and outwash plains in the southern part of the county.

ASal—Acer saccharum/Sanguinaria canadensis-Impatiens capensis habitat type. The common name is Sugar maple/Bloodroot-Jewelweed. The presumed potential climax overstory is dominated by sugar maple, red maple, white ash, green ash, black ash, American basswood, and yellow birch. Currently, common cover types include any mixture of aspen, red maple, oaks (red oak, white oak, and bur oak), basswood, and white birch. The dominant ground flora commonly includes grasses and sedges, lady fern, sweet cicely, jewelweed, bigleaf aster, wood anemone, trilliums, bloodroot, early meadow rue, gooseberry, sensitive fern, interrupted fern, wild geranium, Virginia creeper, Virginia waterleaf, enchanter's nightshade, black snakeroot, hog peanut, and hazelnut.

The moisture regime is wet-mesic or mesic, and the nutrient regime is rich. Although the characteristic dampness can limit tree growth and productivity, most of the commonly occurring tree species can exhibit good potential productivity. Mesic hardwoods (sugar maple, basswood, and white ash) are most competitive in the absence of disturbance, but productivity is only good to moderate. Mid-tolerant hardwoods that require some disturbance for regeneration but that demonstrate good to excellent productive potential are black ash and red maple.

This habitat type is somewhat common on moraines, outwash plains, and glacial lake plains in the southern part of the county and on the stream terraces along the St. Croix River.

ArVRp—Acer rubrum/Vaccinium spp.-Rubus pubescens habitat type. The common name is Red maple/Blueberries-Dwarf raspberry. The presumed potential climax overstory is dominated by red maple and eastern white pine. Currently, aspen and red maple dominate most stands. Common associates and occasional dominants include white birch, pines (white pine, red pine, and jack pine), and oaks (white oak, bur oak, northern red oak, and northern pin oak). The dominant ground flora commonly includes grasses and sedges, hazelnut, bush honeysuckle, bunchberry, dwarf raspberry, swamp dewberry, bracken fern, interrupted fern, lady fern, bigleaf aster, wild lily-of-the-valley, sessile-leaved bellwort, wild sarsaparilla, and red maple seedlings.

The moisture regime is wet-mesic to dry-mesic, and the nutrient regime is poor or medium. Although the characteristic dampness can limit tree growth and productivity, most of the commonly occurring tree species can exhibit good to moderate potential productivity. White pine offers the greatest growth potential.

This habitat type is somewhat common on outwash plains and glacial lake plains throughout the county.

Region 2 Habitat Types (occurring only in the extreme northwest corner of Burnett County, on the undulating ground moraines and outwash terraces northwest of the St. Croix River)

AVCI—Acer saccharum/Vaccinium species-Clintonia borealis habitat type. The common name is Sugar maple/Blueberries-Yellow beadlily. The presumed potential climax overstory is dominated by sugar maple, red maple, and balsam fir but may also include eastern white pine and northern red oak. Currently, common cover types include any mixture of aspen, white birch, red oak, red maple, sugar maple, and balsam fir. The dominant ground flora commonly includes hazelnut, mountain maple,

juneberry, alternate-leaved dogwood, fly honeysuckle, bush honeysuckle, blueberries, bracken fern, wild sarsaparilla, bigleaf aster, wild lily-of-the-valley, yellow beadlily, ground-pine, starflower, rosy twistedstalk, sessile bellwort, spinulose shield fern, and seedlings of sugar maple, red maple, balsam fir, and ironwood.

The moisture regime is dry-mesic, and the nutrient regime is poor or medium. Trees exhibiting excellent potential productivity on these sites include white pine, white birch, and aspen. Also, red oak, red maple, white spruce, and balsam fir can exhibit good growth and productivity. The mesic hardwoods (sugar maple, basswood, white ash, and yellow birch) offer only poor to moderate potential productivity.

ACI—Acer saccharum/Clintonia borealis habitat type. The common name is Sugar maple/Yellow beadlily. The presumed potential climax overstory is dominated by sugar maple, red maple, American basswood, and yellow birch. Currently, common cover types include any mixture of sugar maple, red maple, northern red oak, white birch, and aspen. Common associates are basswood and yellow birch. The dominant ground flora commonly includes hazelnut, alternate-leaved dogwood, fly honeysuckle, wild sarsaparilla, bigleaf aster, starflower, sessile bellwort, hairy Solomon's seal, rosy twistedstalk, wild lily-of-the-valley, yellow beadlily, spinulose shield fern, and ironwood and sugar maple seedlings.

The moisture regime is dry-mesic, and the nutrient regime is medium. Trees exhibiting excellent potential productivity on these sites include white pine, white spruce, white birch, and aspen. Also, red oak, red maple, and balsam fir can exhibit good growth and productivity. The mesic hardwoods (sugar maple, basswood, white ash, and yellow birch) offer only moderate potential productivity.

AAs—Acer saccharum/Arisaema atrorubens habitat type. The common name is Sugar maple/Jack-in-the-pulpit. The presumed potential climax overstory is dominated by sugar maple, American basswood, yellow birch, and red maple. Currently, most stands are dominated by sugar maple. Common overstory associates include basswood, white birch, northern red oak, red maple, yellow birch, and aspen. The dominant ground flora commonly includes hazelnut, alternate-leaved dogwood, mountain maple, juneberry, fly honeysuckle, lady fern, spinulose shield fern, wild sarsaparilla, bigleaf aster, yellow beadlily, rosy twistedstalk, sessile bellwort, wild lily-of-the-valley, sweet cicely, jack-in-the-pulpit, trillium, baneberry, yellow violets, wood anemone, starflower, and ironwood and sugar maple seedlings.

The moisture regime is mesic, and the nutrient regime is medium or rich. Most trees can exhibit excellent growth and productivity on these sites if establishment opportunities exist and competition is controlled. Northern hardwoods demonstrate excellent potential productivity and competitive advantages.

AAtRp—Acer saccharum/Athyrium filix-femina-Rubus pubescens habitat type. The common name is Sugar maple/Lady fern-Dwarf raspberry. The presumed potential climax overstory is dominated by sugar maple, red maple, ashes (black ash, green ash, and white ash), American basswood, yellow birch, and balsam fir. Currently, common cover types include any mixture of aspen, red maple, and sugar maple. Common associates and occasional dominants are northern red oak, black ash, balsam fir, white birch, basswood, green ash, and yellow birch. The dominant ground flora commonly includes hazelnut, juneberry, gooseberries, alder, dwarf raspberry, bunchberry, bush honeysuckle, bracken fern, interrupted fern, lady fern, spinulose shield fern, horsetails, wild sarsaparilla, bigleaf aster, wild lily-of-the-valley, yellow beadlily, sessile bellwort, rosy twistedstalk, starflower, and seedlings of sugar maple, red maple, and ironwood.

The moisture regime is wet-mesic or mesic, and the nutrient regime is medium. Although the characteristic dampness can limit tree growth and productivity, most of the commonly occurring tree species can exhibit good potential productivity. These sites are not ideal for management of northern hardwoods because the growth and quality of sugar maple are limited.

Forest Lowland Habitat Types

No forested lowland habitat types have been defined and characterized. Currently, common lowland cover types include any mixture of northern white-cedar, tamarack, black spruce, balsam fir, black ash, red maple, silver maple, and aspen. To help identify biological potentials, these poorly drained and very poorly drained sites can be subdivided into flood plain (Lfp), mineral soil lowland (Llmin), nonacid organic soil lowland (Lnorg), and acid organic soil lowland (Laorg). Forested lowlands are common throughout the county.

Recreation

The soils of the survey area are rated in tables 15a and 15b according to limitations that affect their suitability for recreation. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the recreational uses. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The ratings in the tables are based on restrictive soil features, such as wetness, slope, and texture of the surface layer. Susceptibility to flooding is considered. Not considered in the ratings, but important in evaluating a site, are the location and accessibility of the area, the size and shape of the area and its scenic quality, vegetation, access to water, potential water impoundment sites, and access to public sewer lines. The capacity of the soil to absorb septic tank effluent and the ability of the soil to support vegetation also are important. Soils that are subject to flooding are limited for recreational uses by the duration and intensity of flooding and the season when flooding occurs. In planning recreational facilities, onsite assessment of the height, duration, intensity, and frequency of flooding is essential.

The information in tables 15a and 15b can be supplemented by other information in this survey, for example, interpretations for building site development, construction materials, sanitary facilities, and water management.

Camp areas require site preparation, such as shaping and leveling the tent and parking areas, stabilizing roads and intensively used areas, and installing sanitary facilities and utility lines. Camp areas are subject to heavy foot traffic and some vehicular traffic. The ratings are based on the soil properties that affect the ease of developing camp areas and the performance of the areas after development. Slope, stoniness, and depth to bedrock or a cemented pan are the main concerns affecting the development of camp areas. The soil properties that affect the performance of the areas after development are those that influence trafficability and promote the growth of vegetation, especially in heavily used areas. For good trafficability, the surface of camp areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a zone in which the soil moisture status is wet, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of

plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Picnic areas are subject to heavy foot traffic. Most vehicular traffic is confined to access roads and parking areas. The ratings are based on the soil properties that affect the ease of developing picnic areas and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of picnic areas. For good trafficability, the surface of picnic areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a zone in which the soil moisture status is wet, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Playgrounds require soils that are nearly level, are free of stones, and can withstand intensive foot traffic. The ratings are based on the soil properties that affect the ease of developing playgrounds and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of playgrounds. For good trafficability, the surface of the playgrounds should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a zone in which the soil moisture status is wet, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Paths and trails for hiking and horseback riding should require little or no slope modification through cutting and filling. The ratings are based on the soil properties that affect trafficability and erodibility. These properties are stoniness, depth to a zone in which the soil moisture status is wet, ponding, flooding, slope, and texture of the surface layer.

Off-road motorcycle trails require little or no site preparation. They are not covered with surfacing material or vegetation. Considerable compaction of the soil material is likely. The ratings are based on the soil properties that influence erodibility, trafficability, dustiness, and the ease of revegetation. These properties are stoniness, slope, depth to a zone in which the soil moisture status is wet, ponding, flooding, and texture of the surface layer.

Golf fairways are subject to heavy foot traffic and some light vehicular traffic. Cutting or filling may be required. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a zone in which the soil moisture status is wet; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a zone in which the soil moisture status is wet, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer. The suitability of the soil for traps, tees, roughs, and greens is not considered in the ratings.

Wildlife Habitat

Soils affect the kind and amount of vegetation that is available to wildlife as food and cover. They also affect the construction of water impoundments. The kind and abundance of wildlife depend largely on the amount and distribution of food, cover, and water. Wildlife habitat can be created or improved by planting appropriate vegetation, by maintaining the existing plant cover, or by promoting the natural establishment of desirable plants.

In table 16, the soils in the survey area are rated according to their potential for providing habitat for various kinds of wildlife. This information can be used in planning

parks, wildlife refuges, nature study areas, and other developments for wildlife; in selecting soils that are suitable for establishing, improving, or maintaining specific elements of wildlife habitat; and in determining the intensity of management needed for each element of the habitat.

The potential of the soil is rated good, fair, poor, or very poor. A rating of *good* indicates that the element or kind of habitat is easily established, improved, or maintained. Few or no limitations affect management, and satisfactory results can be expected. A rating of *fair* indicates that the element or kind of habitat can be established, improved, or maintained in most places. Moderately intensive management is required for satisfactory results. A rating of *poor* indicates that limitations are severe for the designated element or kind of habitat. Habitat can be created, improved, or maintained in most places, but management is difficult and must be intensive. A rating of *very poor* indicates that restrictions for the element or kind of habitat are very severe and that unsatisfactory results can be expected. Creating, improving, or maintaining habitat is impractical or impossible.

The elements of wildlife habitat are described in the following paragraphs. *Grain and seed crops* are domestic grains and seed-producing herbaceous plants. Soil properties and features that affect the growth of grain and seed crops are depth of the root zone, texture of the surface layer, available water capacity, wetness, slope, surface stoniness, and flooding. Soil temperature and soil moisture also are considerations. Examples of grain and seed crops are corn, soybeans, wheat, oats, and barley.

Grasses and legumes are domestic perennial grasses and herbaceous legumes. Soil properties and features that affect the growth of grasses and legumes are depth of the root zone, texture of the surface layer, available water capacity, wetness, surface stoniness, flooding, and slope. Soil temperature and soil moisture also are considerations. Examples of grasses and legumes are bromegrass, timothy, orchardgrass, clover, alfalfa, wheatgrass, and birdsfoot trefoil.

Wild herbaceous plants are native or naturally established grasses and forbs, including weeds. Soil properties and features that affect the growth of these plants are depth of the root zone, texture of the surface layer, available water capacity, wetness, surface stoniness, and flooding. Soil temperature and soil moisture also are considerations. Examples of wild herbaceous plants are bluestems, indiangrass, blueberry, goldenrod, lambsquarters, dandelions, blackberry, ragweed, and nightshade.

Hardwood trees and woody understory produce nuts or other fruit, buds, catkins, twigs, bark, and foliage. Soil properties and features that affect the growth of hardwood trees and shrubs are depth of the root zone, available water capacity, and wetness. Examples of these plants are oak, poplar, box elder, birch, maple, green ash, willow, and American elm. Examples of fruit-producing shrubs that are suitable for planting on soils rated *good* are Russian olive and crabapple.

Coniferous plants furnish browse and seeds. Soil properties and features that affect the growth of coniferous trees, shrubs, and ground cover are depth of the root zone, available water capacity, and wetness. Examples of coniferous plants are pine, spruce, cedar, and tamarack.

Wetland plants are annual and perennial wild herbaceous plants that grow on moist or wet sites. Submerged or floating aquatic plants are excluded. Soil properties and features affecting wetland plants are texture of the surface layer, wetness, reaction, salinity, slope, and surface stoniness. Examples of wetland plants are smartweeds, wild millet, rushes, sedges, bulrushes, wild rice, arrowhead, waterplantain, cattail, prairie cordgrass, bluejoint grass, asters, and beggarticks.

Shallow water areas have an average depth of less than 5 feet. Some are naturally wet areas. Others are created by dams, levees, or other water-control structures. Soil properties and features affecting shallow water areas are depth to bedrock, wetness,

surface stoniness, slope, and permeability. Examples of shallow water areas are waterfowl feeding areas, wildlife watering developments, beaver ponds, and other wildlife ponds.

The habitat for various kinds of wildlife is described in the following paragraphs. *Habitat for openland wildlife* consists of cropland, pasture, meadows, and areas that are overgrown with grasses, herbs, shrubs, and vines. These areas produce grain and seed crops, grasses and legumes, and wild herbaceous plants. Wildlife attracted to these areas include Hungarian partridge, ring-necked pheasant, bobwhite quail, sharp-tailed grouse, meadowlark, field sparrow, killdeer, cottontail rabbit, and red fox.

Habitat for woodland wildlife consists of areas of deciduous and/or coniferous plants and associated grasses, legumes, and wild herbaceous plants. Wildlife attracted to these areas include wild turkey, ruffed grouse, thrushes, woodpeckers, owls, tree squirrels, porcupine, raccoon, white-tailed deer, and black bear.

Habitat for wetland wildlife consists of open, marshy or swampy shallow water areas. Some of the wildlife attracted to such areas are ducks, geese, herons, bitterns, rails, kingfishers, muskrat, otter, mink, and beaver.

Engineering

This section provides information for planning land uses related to urban development and to water management. Soils are rated for various uses, and the most limiting features are identified. Ratings are given for building site development, sanitary facilities, construction materials, and water management. The ratings are based on observed performance of the soils and on the data in the tables described under the heading "Soil Properties."

Information in this section is intended for land use planning, for evaluating land use alternatives, and for planning site investigations prior to design and construction. The information, however, has limitations. For example, estimates and other data generally apply only to that part of the soil between the surface and a depth of 5 to 7 feet. Because of the map scale, small areas of different soils may be included within the mapped areas of a specific soil.

The information is not site specific and does not eliminate the need for onsite investigation of the soils or for testing and analysis by personnel experienced in the design and construction of engineering works.

Government ordinances and regulations that restrict certain land uses or impose specific design criteria were not considered in preparing the information in this section. Local ordinances and regulations should be considered in planning, in site selection, and in design.

Soil properties, site features, and observed performance were considered in determining the ratings in this section. During the fieldwork for this soil survey, determinations were made about particle-size distribution, liquid limit, plasticity index, soil reaction, depth to bedrock, hardness of bedrock within 5 to 7 feet of the surface, soil wetness, depth to a zone in which the soil moisture status is wet, ponding, slope, likelihood of flooding, natural soil structure aggregation, and soil density. Data were collected about kinds of clay minerals, mineralogy of the sand and silt fractions, and the kinds of adsorbed cations. Estimates were made for erodibility, permeability, corrosivity, shrink-swell potential, available water capacity, and other behavioral characteristics affecting engineering uses.

This information can be used to evaluate the potential of areas for residential, commercial, industrial, and recreational uses; make preliminary estimates of construction conditions; evaluate alternative routes for roads, streets, highways, pipelines, and underground cables; evaluate alternative sites for sanitary landfills, septic tank absorption fields, and sewage lagoons; plan detailed onsite investigations of soils and geology; locate potential sources of gravel, sand, earthfill, and topsoil; plan

drainage systems, irrigation systems, ponds, terraces, and other structures for soil and water conservation; and predict performance of proposed small structures and pavements by comparing the performance of existing similar structures on the same or similar soils.

The information in the tables, along with the soil maps, the soil descriptions, and other data provided in this survey, can be used to make additional interpretations.

Some of the terms used in this soil survey have a special meaning in soil science and are defined in the Glossary.

Building Site Development

Soil properties influence the development of building sites, including the selection of the site, the design of the structure, construction, performance after construction, and maintenance. Tables 17a and 17b show the degree and kind of soil limitations that affect dwellings with and without basements, small commercial buildings, local roads and streets, shallow excavations, and lawns and landscaping.

The ratings in the tables are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect building site development. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Dwellings are single-family houses of three stories or less. For dwellings without basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. For dwellings with basements, the foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of about 7 feet. The ratings for dwellings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a zone in which the soil moisture status is wet, ponding, flooding, subsidence, linear extensibility (shrink-swell potential), and compressibility. Compressibility is inferred from the Unified classification. The properties that affect the ease and amount of excavation include depth to a zone in which the soil moisture status is wet, ponding, flooding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Small commercial buildings are structures that are less than three stories high and do not have basements. The foundation is assumed to consist of spread footings of reinforced concrete built on undisturbed soil at a depth of 2 feet or at the depth of maximum frost penetration, whichever is deeper. The ratings are based on the soil properties that affect the capacity of the soil to support a load without movement and on the properties that affect excavation and construction costs. The properties that affect the load-supporting capacity include depth to a zone in which the soil moisture status is wet, ponding, flooding, subsidence, linear extensibility (shrink-swell potential),

and compressibility (which is inferred from the Unified classification). The properties that affect the ease and amount of excavation include flooding, depth to a zone in which the soil moisture status is wet, ponding, slope, depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, and the amount and size of rock fragments.

Local roads and streets have an all-weather surface and carry automobile and light truck traffic all year. They have a subgrade of cut or fill soil material; a base of gravel, crushed rock, or soil material stabilized by lime or cement; and a surface of flexible material (asphalt), rigid material (concrete), or gravel with a binder. The ratings are based on the soil properties that affect the ease of excavation and grading and the traffic-supporting capacity. The properties that affect the ease of excavation and grading are depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, depth to a zone in which the soil moisture status is wet, ponding, flooding, the amount of large stones, and slope. The properties that affect the traffic-supporting capacity are soil strength (as inferred from the AASHTO group index number), subsidence, linear extensibility (shrink-swell potential), the potential for frost action, depth to a zone in which the soil moisture status is wet, and ponding.

Shallow excavations are trenches or holes dug to a maximum depth of 5 or 6 feet for graves, utility lines, open ditches, or other purposes. The ratings are based on the soil properties that influence the ease of digging and the resistance to sloughing. Depth to bedrock or a cemented pan, hardness of bedrock or a cemented pan, the amount of large stones, and dense layers influence the ease of digging, filling, and compacting. Depth to a seasonal zone in which the soil moisture status is wet, flooding, and ponding may restrict the period when excavations can be made. Slope influences the ease of using machinery. Soil texture, depth to a zone in which the soil moisture status is wet, and linear extensibility (shrink-swell potential) influence the resistance to sloughing.

Lawns and landscaping require soils on which turf and ornamental trees and shrubs can be established and maintained. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a zone in which the soil moisture status is wet; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a zone in which the soil moisture status is wet, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer.

Sanitary Facilities

Tables 18a and 18b show the degree and kind of soil limitations that affect septic tank absorption fields, sewage lagoons, sanitary landfills, and daily cover for landfill. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect these uses. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Septic tank absorption fields are areas in which effluent from a septic tank is distributed into the soil through subsurface tiles or perforated pipe. Only that part of the soil between depths of 24 and 60 inches is evaluated. The ratings are based on the soil properties that affect absorption of the effluent, construction and maintenance of the system, and public health. Permeability, depth to a zone in which the soil moisture status is wet, ponding, depth to bedrock or a cemented pan, and flooding affect absorption of the effluent. Stones and boulders, ice, and bedrock or a cemented pan interfere with installation. Subsidence interferes with installation and maintenance. Excessive slope may cause lateral seepage and surfacing of the effluent in downslope areas.

Some soils are underlain by loose sand and gravel or fractured bedrock at a depth of less than 4 feet below the distribution lines. In these soils the absorption field may not adequately filter the effluent, particularly when the system is new. As a result, the ground water may become contaminated.

Sewage lagoons are shallow ponds constructed to hold sewage while aerobic bacteria decompose the solid and liquid wastes. Lagoons should have a nearly level floor surrounded by cut slopes or embankments of compacted soil. Nearly impervious soil material for the lagoon floor and sides is required to minimize seepage and contamination of ground water. Considered in the ratings are slope, permeability, depth to a zone in which the soil moisture status is wet, ponding, depth to bedrock or a cemented pan, flooding, large stones, and content of organic matter.

Soil permeability is a critical property affecting the suitability for sewage lagoons. Most porous soils eventually become sealed when they are used as sites for sewage lagoons. Until sealing occurs, however, the hazard of pollution is severe. Soils that have a permeability rate of more than 2 inches per hour are too porous for the proper functioning of sewage lagoons. In these soils, seepage of the effluent can result in contamination of the ground water. Ground-water contamination is also a hazard if fractured bedrock is within a depth of 40 inches, if a saturated zone is high enough to raise the level of sewage in the lagoon, or if floodwater overtops the lagoon.

A high content of organic matter is detrimental to proper functioning of the lagoon because it inhibits aerobic activity. Slope, bedrock, and cemented pans can cause construction problems, and large stones can hinder compaction of the lagoon floor. If the lagoon is to be uniformly deep throughout, the slope must be gentle enough and the soil material must be thick enough over bedrock or a cemented pan to make land smoothing practical.

A trench sanitary landfill is an area where solid waste is placed in successive layers in an excavated trench. The waste is spread, compacted, and covered daily with a thin layer of soil excavated at the site. When the trench is full, a final cover of soil material at least 2 feet thick is placed over the landfill. The ratings in the table are based on the soil properties that affect the risk of pollution, the ease of excavation, trafficability, and revegetation. These properties include permeability, depth to bedrock or a cemented pan, depth to a zone in which the soil moisture status is wet, ponding, slope, flooding, texture, stones and boulders, highly organic layers, soil reaction, and content of salts and sodium. Unless otherwise stated, the ratings apply only to that part of the soil within a depth of about 6 feet. For deeper trenches, onsite investigation may be needed.

Hard, nonrippable bedrock, creviced bedrock, or highly permeable strata in or directly below the proposed trench bottom can affect the ease of excavation and the hazard of ground-water pollution. Slope affects construction of the trenches and the

movement of surface water around the landfill. It also affects the construction and performance of roads in areas of the landfill.

Soil texture and consistence affect the ease with which the trench is dug and the ease with which the soil can be used as daily or final cover. They determine the workability of the soil when dry and when wet. Soils that are plastic and sticky when wet are difficult to excavate, grade, or compact and are difficult to place as a uniformly thick cover over a layer of refuse.

The soil material used as the final cover for a trench landfill should be suitable for plants. It should not have excess sodium or salts and should not be too acid. The surface layer generally has the best workability, the highest content of organic matter, and the best potential for plants. Material from the surface layer should be stockpiled for use as the final cover.

In an *area sanitary landfill*, solid waste is placed in successive layers on the surface of the soil. The waste is spread, compacted, and covered daily with a thin layer of soil from a source away from the site. A final cover of soil material at least 2 feet thick is placed over the completed landfill. The ratings in the table are based on the soil properties that affect trafficability and the risk of pollution. These properties include flooding, permeability, depth to a zone in which the soil moisture status is wet, ponding, slope, and depth to bedrock or a cemented pan.

Flooding is a serious problem because it can result in pollution in areas downstream from the landfill. If permeability is too rapid or if fractured bedrock, a fractured cemented pan, or a saturated zone is close to the surface, the leachate can contaminate the water supply. Slope is a consideration because of the extra grading required to maintain roads in the steeper areas of the landfill. Also, leachate may flow along the surface of the soils in the steeper areas and cause difficult seepage problems.

Daily cover for landfill is the soil material that is used to cover compacted solid waste in an area sanitary landfill. The soil material is obtained offsite, transported to the landfill, and spread over the waste. The ratings in the table also apply to the final cover for a landfill. They are based on the soil properties that affect workability, the ease of digging, and the ease of moving and spreading the material over the refuse daily during wet and dry periods. These properties include soil texture, depth to a zone in which the soil moisture status is wet, ponding, rock fragments, slope, depth to bedrock or a cemented pan, reaction, and content of salts, sodium, or lime.

Loamy or silty soils that are free of large stones and excess gravel are the best cover for a landfill. Clayey soils may be sticky and difficult to spread; sandy soils are subject to wind erosion.

Slope affects the ease of excavation and of moving the cover material. Also, it can influence runoff, erosion, and reclamation of the borrow area.

After soil material has been removed, the soil material remaining in the borrow area must be thick enough over bedrock, a cemented pan, or a saturated zone to permit revegetation. The soil material used as the final cover for a landfill should be suitable for plants. It should not have excess sodium, salts, or lime and should not be too acid.

Construction Materials

Tables 19a and 19b give information about the soils as potential sources of gravel, sand, reclamation material, roadfill, and topsoil. Normal compaction, minor processing, and other standard construction practices are assumed.

Sand and gravel are natural aggregates suitable for commercial use with a minimum of processing. They are used in many kinds of construction. Specifications for each use vary widely. In table 19a, only the likelihood of finding material in suitable quantity is evaluated. The suitability of the material for specific purposes is not evaluated, nor are factors that affect excavation of the material. The properties used to

evaluate the soil as a source of sand or gravel are gradation of grain sizes (as indicated by the Unified classification of the soil), the thickness of suitable material, and the content of rock fragments. If the bottom layer of the soil contains sand or gravel, the soil is considered a likely source regardless of thickness. The assumption is that the sand or gravel layer below the depth of observation exceeds the minimum thickness.

The soils are rated *good*, *fair*, or *poor* as potential sources of gravel or sand. A rating of *good* or *fair* means that the source material is likely to be in or below the soil. The bottom layer and the thickest layer of the soils are assigned numerical ratings. These ratings indicate the likelihood that the layer is a source of sand or gravel. The number 0.00 indicates that the layer is a good source. A number between 0.00 and 1.00 indicates the degree to which the layer is a likely source.

In table 19b, the soils are rated *good, fair,* or *poor* as potential sources of reclamation material, roadfill, and topsoil. The features that limit the soils as sources of these materials are specified in the table. The numerical ratings given after the specified features indicate the degree to which the features limit the soils as sources of reclamation material, roadfill, or topsoil. The lower the number, the greater the limitation

Reclamation material is used in areas that have been drastically disturbed by surface mining or similar activities. When these areas are reclaimed, layers of soil material or unconsolidated geological material, or both, are replaced in a vertical sequence. The reconstructed soil favors plant growth. The ratings in the table do not apply to quarries and other mined areas that require an offsite source of reconstruction material. The ratings are based on the soil properties that affect erosion and stability of the surface and the productive potential of the reconstructed soil. These properties include the content of sodium, salts, and calcium carbonate; reaction; available water capacity; erodibility; texture; content of rock fragments; and content of organic matter and other features that affect fertility.

Roadfill is soil material that is excavated in one place and used in road embankments in another place. In this table, the soils are rated as a source of roadfill for low embankments, generally less than 6 feet high and less exacting in design than higher embankments.

The ratings are for the whole soil, from the surface to a depth of about 5 feet. It is assumed that soil layers will be mixed when the soil material is excavated and spread.

The ratings are based on the amount of suitable material and on soil properties that affect the ease of excavation and the performance of the material after it is in place. The thickness of the suitable material is a major consideration. The ease of excavation is affected by large stones, depth to a zone in which the soil moisture status is wet, and slope. How well the soil performs in place after it has been compacted and drained is determined by its strength (as inferred from the AASHTO classification of the soil) and linear extensibility (shrink-swell potential).

Topsoil is used to cover an area so that vegetation can be established and maintained. The upper 40 inches of a soil is evaluated for use as topsoil. Also evaluated is the reclamation potential of the borrow area. The ratings are based on the soil properties that affect plant growth; the ease of excavating, loading, and spreading the material; and reclamation of the borrow area. Toxic substances, soil reaction, and the properties that are inferred from soil texture, such as available water capacity and fertility, affect plant growth. The ease of excavating, loading, and spreading is affected by rock fragments, slope, depth to a zone in which the soil moisture status is wet, soil texture, and thickness of suitable material. Reclamation of the borrow area is affected by slope, depth to a zone in which the soil moisture status is wet, rock fragments, depth to bedrock or a cemented pan, and toxic material.

The surface layer of most soils is generally preferred for topsoil because of its organic matter content. Organic matter greatly increases the absorption and retention of moisture and nutrients for plant growth.

Water Management

Table 20 gives information on the soil properties and site features that affect water management. The degree and kind of soil limitations are given for pond reservoir areas; embankments, dikes, and levees; and aquifer-fed excavated ponds. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect these uses. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Pond reservoir areas hold water behind a dam or embankment. Soils best suited to this use have low seepage potential in the upper 60 inches. The seepage potential is determined by the permeability of the soil and the depth to fractured bedrock or other permeable material. Excessive slope can affect the storage capacity of the reservoir area.

Embankments, dikes, and levees are raised structures of soil material, generally less than 20 feet high, constructed to impound water or to protect land against overflow. Embankments that have zoned construction (core and shell) are not considered. In this table, the soils are rated as a source of material for embankment fill. The ratings apply to the soil material below the surface layer to a depth of about 5 feet. It is assumed that soil layers will be uniformly mixed and compacted during construction.

The ratings do not indicate the ability of the natural soil to support an embankment. Soil properties to a depth even greater than the height of the embankment can affect performance and safety of the embankment. Generally, deeper onsite investigation is needed to determine these properties.

Soil material in embankments must be resistant to seepage, piping, and erosion and have favorable compaction characteristics. Unfavorable features include less than 5 feet of suitable material and a high content of stones or boulders, organic matter, or salts or sodium. A wet zone high in the soil profile affects the amount of usable material. It also affects trafficability.

Aquifer-fed excavated ponds are pits or dugouts that extend to a ground-water aquifer or to a depth below a permanent water table. Excluded are ponds that are fed only by surface runoff and embankment ponds that impound water 3 feet or more above the original surface. Excavated ponds are affected by depth to a zone in which the soil moisture status is wet, permeability of the aquifer, and quality of the water as inferred from the salinity of the soil. Depth to bedrock and the content of large stones affect the ease of excavation.

Agricultural Waste Management

Soil properties are important considerations in areas where soils are used as sites for the treatment and disposal of organic waste and wastewater. Selection of soils with properties that favor waste management can help to prevent environmental damage.

Tables 21a and 21b show the degree and kind of soil limitations affecting the treatment of agricultural waste, including municipal and food-processing wastewater and effluent from lagoons or storage ponds. Municipal wastewater is the waste stream from a municipality. It contains domestic waste and may contain industrial waste. It may have received primary or secondary treatment. It is rarely untreated sewage. Food-processing wastewater results from the preparation of fruits, vegetables, milk, cheese, and meats for public consumption. In places it is high in content of sodium and chloride. In the context of these tables, the effluent in lagoons and storage ponds is from facilities used to treat or store food-processing wastewater or domestic or animal waste. Domestic and food-processing wastewater is very dilute, and the effluent from the facilities that treat or store it commonly is very low in content of carbonaceous and nitrogenous material; the content of nitrogen commonly ranges from 10 to 30 milligrams per liter. The wastewater from animal waste treatment lagoons or storage ponds, however, has much higher concentrations of these materials, mainly because the manure has not been diluted as much as the domestic waste. The content of nitrogen in this wastewater generally ranges from 50 to 2,000 milligrams per liter. When wastewater is applied, checks should be made to ensure that nitrogen, heavy metals, and salts are not added in excessive amounts.

The ratings in the tables are for waste management systems that not only dispose of and treat organic waste or wastewater but also are beneficial to crops (application of manure and food-processing waste, application of sewage sludge, and disposal of wastewater by irrigation) and for waste management systems that are designed only for the purpose of wastewater disposal and treatment (overland flow of wastewater).

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect agricultural waste management. *Not limited* indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. *Somewhat limited* indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. *Very limited* indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Application of manure and food-processing waste not only disposes of waste material but also can improve crop production by increasing the supply of nutrients in the soils where the material is applied. Manure is the excrement of livestock and poultry, and food-processing waste is damaged fruit and vegetables and the peelings, stems, leaves, pits, and soil particles removed in food preparation. The manure and food-processing waste are either solid, slurry, or liquid. Their nitrogen content varies. A high content of nitrogen limits the application rate. Toxic or otherwise dangerous wastes, such as those mixed with the lye used in food processing, are not considered in the ratings.

The ratings are based on the soil properties that affect absorption, plant growth, microbial activity, erodibility, the rate at which the waste is applied, and the method by

which the waste is applied. The properties that affect absorption include permeability, depth to a water table, ponding, the sodium adsorption ratio, depth to bedrock or a cemented pan, and available water capacity. The properties that affect plant growth and microbial activity include reaction, the sodium adsorption ratio, salinity, and bulk density. The wind erodibility group, the soil erodibility factor K, and slope are considered in estimating the likelihood that wind erosion or water erosion will transport the waste material from the application site. Stones, cobbles, a water table, ponding, and flooding can hinder the application of waste. Permanently frozen soils are unsuitable for waste treatment.

Application of sewage sludge not only disposes of waste material but also can improve crop production by increasing the supply of nutrients in the soils where the material is applied. In the context of this table, sewage sludge is the residual product of the treatment of municipal sewage. The solid component consists mainly of cell mass, primarily bacteria cells that developed during secondary treatment and have incorporated soluble organics into their own bodies. The sludge has small amounts of sand, silt, and other solid debris. The content of nitrogen varies. Some sludge has constituents that are toxic to plants or hazardous to the food chain, such as heavy metals and exotic organic compounds, and should be analyzed chemically prior to use.

The content of water in the sludge ranges from about 98 percent to less than 40 percent. The sludge is considered liquid if it is more than about 90 percent water, slurry if it is about 50 to 90 percent water, and solid if it is less than about 50 percent water.

The ratings in the table are based on the soil properties that affect absorption, plant growth, microbial activity, erodibility, the rate at which the sludge is applied, and the method by which the sludge is applied. The properties that affect absorption, plant growth, and microbial activity include permeability, depth to a water table, ponding, the sodium adsorption ratio, depth to bedrock or a cemented pan, available water capacity, reaction, salinity, and bulk density. The wind erodibility group, the soil erodibility factor K, and slope are considered in estimating the likelihood that wind erosion or water erosion will transport the waste material from the application site. Stones, cobbles, a water table, ponding, and flooding can hinder the application of sludge. Permanently frozen soils are unsuitable for waste treatment.

Disposal of wastewater by irrigation not only disposes of municipal wastewater and wastewater from food-processing plants, lagoons, and storage ponds but also can improve crop production by increasing the amount of water available to crops. The ratings in the table are based on the soil properties that affect the design, construction, management, and performance of the irrigation system. The properties that affect design and management include the sodium adsorption ratio, depth to a water table, ponding, available water capacity, permeability, slope, and flooding. The properties that affect construction include stones, cobbles, depth to bedrock or a cemented pan, depth to a water table, and ponding. The properties that affect performance include depth to bedrock or a cemented pan, bulk density, the sodium adsorption ratio, salinity, reaction, and the cation-exchange capacity, which is used to estimate the capacity of a soil to adsorb heavy metals. Permanently frozen soils are not suitable for disposal of wastewater by irrigation.

Overland flow of wastewater is a process in which wastewater is applied to the upper reaches of sloped land and allowed to flow across vegetated surfaces, sometimes called terraces, to runoff-collection ditches. The length of the run generally is 150 to 300 feet. The application rate ranges from 2.5 to 16.0 inches per week. It commonly exceeds the rate needed for irrigation of cropland. The wastewater leaves solids and nutrients on the vegetated surfaces as it flows downslope in a thin film. Most of the water reaches the collection ditch, some is lost through evapotranspiration, and a small amount may percolate to the ground water.

The ratings in the table are based on the soil properties that affect absorption, plant growth, microbial activity, and the design and construction of the system. Reaction and the cation-exchange capacity affect absorption. Reaction, salinity, and the sodium adsorption ratio affect plant growth and microbial activity. Slope, permeability, depth to a water table, ponding, flooding, depth to bedrock or a cemented pan, stones, and cobbles affect design and construction. Permanently frozen soils are unsuitable for waste treatment.

Table 3.--Temperature and Precipitation
(Recorded in the period 1971-2000 at Grantsburg, Wisconsin)

	 		;	[emperature			 	Pi	recipita	ation		
	 		 Average 	2 years in 10 will have		 		2 years in 10 will have		 		
Month	daily	Average daily minimum 		Maximum	 Minimum temperature lower than	Average number of growing degree days*		Less		Average number of days with 0.10 inch or more	snowfall	
	°F	°F	° _F	°F	o _F	Units	In	In	In		In	
January	 19.6 	 -2.1 	 8.7 	 44 	 -33 	 0 	 1.15 	 0.55 	 1.74 	 3 	 13.4 	
February	27.1	4.8	16.0	50	-29	1	.84	.31	1.35	2	7.1	
March	 38.9 	 17.8 	 28.4 	 67 	 -14 	 20 	 1.75 	 .91 	 2.50 	 4 	 8.3 	
April	55.4	31.4	43.4	83	10	176	2.19	1.02	3.37	5	2.2	
Мау	 69.0 	 43.7 	 56.3 	 89 	 25 	 508 	 3.50 	 2.05 	 4.89 	 7 	 .0 	
June	76.0	52.6	64.3	92	35	729	4.57	2.67	6.30	8	.0	
July	 80.4 	 57.6 	 69.0 	 95 	 43 	 898 	 4.24 	 2.54 	 5.76 	 7 	 .0 	
August	77.9	55.6	66.7	92	40	829	4.56	2.67	5.98	7	.0	
September	 68.2 	 45.8 	 57.0 	 87 	 28 	 511 	 3.41 	 1.86 	 4.90 	 6 	 .0 	
October	56.2	34.7	45.4	80	17	211	2.47	1.19	3.58	5	.3	
November	 38.5 	 21.2 	 29.8 	 65 	 -9 	 28 	 2.05 	 .76 	 3.26 	 5 	 9.5 	
December	24.4	5.1	14.8	47	-27	1	1.10	.51	1.60	3	10.8	
Yearly:	 	 	 	 	 	 	 	 	 	 	 	
Average	52.6	30.7	41.7									
Extreme	 100 	 -42 	 	 95 	 -35 	 	 	 	 	 	 	
Total	 	 	 	 	 	3,910	31.82	25.30	35.77	62 	 51.6 	

^{*} A growing degree day is a unit of heat available for plant growth. It can be calculated by adding the maximum and minimum daily temperatures, dividing the sum by 2, and subtracting the temperature below which growth is minimal for the principal crops in the area (40 degrees F).

Table 4.--Freeze Dates in Spring and Fall (Recorded in the period 1971-2000 at Grantsburg, Wisconsin)

İ	Temperature					
Probability	24	Op	28	o _F	32	O _E
	or lo	-	orlo	_	or lo	_
Last freezing temperature in spring:			 		 	
1 year in 10					 	
later than	Apr.	29	May	10	May	21
2 years in 10					 	
later than	Apr.	24	May	6	May	17
5 years in 10			İ			
later than	Apr.	15	Apr.	27	May	8
First freezing temperature in fall:					 	
1 year in 10					 	
earlier than	Oct.	5	Sept.	25	Sept.	15
2 years in 10					 	
earlier than	Oct.	11	Sept.	29	Sept.	19
5 years in 10					 	
earlier than	Oct.	21	Oct.	7	Sept.	26

Table 5.--Growing Season

(Recorded in the period 1971-2000 at Grantsburg,
Wisconsin)

	_	nimum temper growing sea	
Probability			
	Higher	Higher	Higher
	than	than	than
	24 °F	28 °F	32 °F
	Days	Days	Days
9 years in 10	164	143	124
8 years in 10	172	149	129
5 years in 10	188	161	139
2 years in 10	204	172	149
 1 year in 10	212	179	154

Table 6.--Cropland Management Considerations

(See text for a description of the considerations listed in this table)

Man g-mhol	Cropland management
Map symbol and	Cropland management considerations
soil name	
3A: Totagatic	Flooding Excessive permeability High content of organic matter Limited available water capacity Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status
Bowstring	Flooding Excessive permeability High content of organic matter
	Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status
Ausable	Flooding Excessive permeability High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status
12A: Makwa	Flooding High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Surface stones Wet soil moisture status
22A: Comstock	Acid soil Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status
27A: Scott Lake	Excessive permeability Limited available water capacity Potential for ground-water contamination Wind erosion
28B: Haugen, very stony	Acid soil Dense layer Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Surface stones Water erosion Wet soil moisture status

Table 6.--Cropland Management Considerations--Continued

Cropland management considerations
Acid soil
Dense layer
Potential for ground-water contamination
Potential for surface-water contamination
Restricted permeability
Water erosion
Wet soil moisture status Wind erosion
wind erosion
Excessive permeability
Limited available water capacity
Potential for ground-water contamination
Potential for surface-water contamination
Surface stones
Water erosion
Wind erosion
Excessive permeability
Limited available water capacity
Potential for ground-water contamination Potential for surface-water contamination
Water erosion
Wind erosion
Acid soil
Dense layer
Potential for ground-water contamination
Potential for surface-water contamination
Restricted permeability
Surface stones
Water erosion
Wet soil moisture status Wind erosion
wind erosion
Acid soil
Dense layer
Potential for ground-water contamination
Potential for surface-water contamination
Restricted permeability
Water erosion
Wet soil moisture status
Wind erosion
Excessive permeability Limited available water capacity
Potential for ground-water contamination
Potential for surface-water contamination
Surface stones
Water erosion
Wind erosion
Excessive permeability
Limited available water capacity
Potential for ground-water contamination
Potential for surface-water contamination
Water erosion
Wind erosion
FOOD EITEESOO EITEEOO ZIEEFSOOO ZIEEFOOO EITEEO

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
38A: Rosholt	Excessive permeability Limited available water capacity Potential for ground-water contamination Wind erosion
38B: Rosholt	Excessive permeability Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Water erosion Wind erosion
38C: Rosholt	Excessive permeability Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Water erosion Wind erosion
38D: Rosholt	Slope Excessive permeability Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Water erosion Wind erosion
42D: Amery	Acid soil Slope Dense layer Potential for surface-water contamination Restricted permeability Surface stones Water erosion Wind erosion
43B: Antigo	Excessive permeability Potential for ground-water contamination Potential for surface-water contamination Water erosion
43C: Antigo	Excessive permeability Potential for ground-water contamination Potential for surface-water contamination Water erosion
63A: Crystal Lake	Acid soil Potential for ground-water contamination Wet soil moisture status
63B: Crystal Lake	Acid soil Potential for ground-water contamination Potential for surface-water contamination Water erosion Wet soil moisture status

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
63C:	
Crystal Lake	Acid soil
	Potential for ground-water contamination
	Potential for surface-water contamination
	! -
	Water erosion
	Wet soil moisture status
64A:	
Totagatic	Flooding
	Excessive permeability
	High content of organic matter
	Limited available water capacity
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
	wet soil moisture status
Mintensial A	
Winterfield	Flooding
	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
	Wind erosion
69C:	
Keweenaw	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Surface stones
	Water erosion
	Wind erosion
_	
Sayner	Acid soil
	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Potential for surface-water contamination
	Surface stones
	Water erosion
	Wind erosion
Vilas	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Potential for surface-water contamination
	Surface stones
	Water erosion
	Wind erosion
69E:	
Keweenaw	Slope
	Limited available water capacity
	Limited content of organic matter
	. –
	Potential for ground-water contamination
	Surface stones
	Water erosion
	Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol and	Cropland management considerations
soil name	considerations
69E:	
Sayner	Acid soil
	Slope Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Potential for surface-water contamination
	Surface stones
	Water erosion
	Wind erosion
Vilas	 Slope
	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Potential for surface-water contamination
	Surface stones Water erosion
	Wind erosion
82B:	
Cutaway	Excessive permeability
	Limited content of organic matter Potential for ground-water contamination
	Wet soil moisture status
	Wind erosion
Branstad	Limited content of organic matter
	Potential for ground-water contamination Potential for surface-water contamination
	Water erosion
	Wet soil moisture status
	Wind erosion
224	
82C: Cutaway	Excessive permeability
,	Limited content of organic matter
	Potential for ground-water contamination
	Water erosion
	Wet soil moisture status
	Wind erosion
Branstad	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wet soil moisture status Wind erosion
	Wind erosion
83A:	
Smestad	Excessive permeability
	Potential for ground-water contamination
	Potential for surface-water contamination Restricted permeability
	Restricted permeability Wet soil moisture status
	Wind erosion
85B:	
Taylor	
	Potential for surface-water contamination Restricted permeability
	Water erosion
	Wet soil moisture status
	Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
85C:	
Taylor	Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Water erosion Wet soil moisture status Wind erosion
86A:	
Indus	Potential poor tilth and compaction Potential for ground-water contamination Restricted permeability Wet soil moisture status
Alango	Potential poor tilth and compaction Potential for ground-water contamination Restricted permeability Wet soil moisture status
89A:	
Wildwood	High content of organic matter Limited available water capacity Ponding Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Wet soil moisture status Wind erosion
96B:	
Karlsborg	Excessive permeability Limited available water capacity Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Wet soil moisture status Wind erosion
96C:	
Karlsborg	Excessive permeability Limited available water capacity Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Water erosion Wet soil moisture status Wind erosion
96D:	
Karlsborg	Slope Excessive permeability Limited available water capacity Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Water erosion Wet soil moisture status Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	<u> </u>
100B:	
Menahga	Acid soil
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination Wind erosion
100C:	
Menahga	Acid soil
	Excessive permeability
	Limited available water capacity Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
1000	
100D: Menahga	Acid soil
	Slope
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion Wind erosion
	Hind elogion
120B:	
Kost	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination Wind erosion
127D:	
Amery	Acid soil
	Slope Dense layer
	Dense layer Potential for surface-water contamination
	Restricted permeability
	Surface stones
	Water erosion
	Wind erosion
Rosholt	Clana
ROSHOIC	Slope Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Potential for surface-water contamination
	Surface stones
	Water erosion
	Wind erosion
127E:	
Amery	Acid soil
-	Slope
	Dense layer
	Potential for surface-water contamination
	Restricted permeability
	Surface stones
	Water erosion Wind erosion
	"1112 31091011
	ı

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
127E:	
Rosholt	Slope
	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Potential for surface-water contamination
	Surface stones
	Water erosion
	Wind erosion
1513	
151A:	l Bondloon
Bluffton	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
152A:	
Alstad	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
154E:	
Cushing	Slope
	Potential for surface-water contamination
	Water erosion
	Wind erosion
156B:	
Magnor, very stony	Acid soil
	Dense layer
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Surface stones
	Water erosion
	Wet soil moisture status
Magnor	Acid soil
	Dense layer
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Water erosion
	Wet soil moisture status
157B:	
Freeon, very stony	_
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Surface stones
	Water erosion
	Wet soil moisture status
Freeon	Dense layer
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Water erosion
	Wet soil moisture status

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
157C:	
Freeon, very stony	
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Surface stones
	Water erosion Wet soil moisture status
	wet soil moisture status
Freeon	 Dense layer
F166011	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Water erosion
	Wet soil moisture status
160A:	
Oesterle	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Wet soil moisture status
	Wind erosion
4.55	
165B:	
Elderon	Excessive permeability
	Limited available water capacity Limited content of organic matter
	Potential for ground-water contamination
	Water erosion
	Wind erosion
185B:	
Tradelake	Excessive permeability
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Water erosion
	Wet soil moisture status
	Wind erosion
Taylor	
Taylor	Potential for ground-water contamination Potential for surface-water contamination
	Restricted permeability
	Water erosion
	Wet soil moisture status
	Wind erosion
185C:	
Tradelake	,
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Water erosion
	Wet soil moisture status
	Wind erosion
manal and	
Taylor	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability Water erosion
	water erosion Wet soil moisture status
	Wind erosion
	I

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	33
185D:	
Tradelake	Slope
	Excessive permeability
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability Water erosion
	Wet soil moisture status
	Wind erosion
Taylor	Slope
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Water erosion Wet soil moisture status
	Wind erosion
185E:	
Tradelake	Slope
	Excessive permeability
	Potential for ground-water contamination
	Potential for surface-water contamination Restricted permeability
	Water erosion
	Wet soil moisture status
	Wind erosion
Taylor	Slope
	Potential for ground-water contamination
	Potential for surface-water contamination Restricted permeability
	Water erosion
i	Wet soil moisture status
İ	Wind erosion
189A:	
Siren	Potential for ground-water contamination Potential for surface-water contamination
	Wet soil moisture status
193A:	
Minocqua	Excessive permeability
	High content of organic matter
	Ponding Potential for ground-water centamination
	Potential for ground-water contamination Potential for surface-water contamination
i	Wet soil moisture status
i	
337A:	
Plover	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status Wind erosion
368B:	
Mahtomedi	Excessive permeability
	Limited available water capacity
ļ	Limited content of organic matter
	Potential for ground-water contamination
	Wind erosion
l de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	

Table 6.--Cropland Management Considerations--Continued

Man numbal	Cural and management
Map symbol and	Cropland management considerations
soil name	Considerations
SOII Hame	
368B:	
Cress	Acid soil
CIEBB	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Water erosion
	Wind erosion
368C:	
Mahtomedi	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
Cress	Acid soil
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination Water erosion
	Wind erosion
	Wind Clobion
368D:	
Mahtomedi	Slope
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
Cress	Acid soil
Cless	Slope
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
368E:	
Mahtomedi	Slope
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
368E: Cress	 Acid soil Slope
	Excessive permeability
	Limited available water capacity Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion Wind erosion
	wind erosion
380B:	
Cress	Acid soil
	Excessive permeability
	Limited available water capacity Limited content of organic matter
	Potential for ground-water contamination
	Water erosion
	Wind erosion
Rosholt	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination Potential for surface-water contamination
	Potential for surface-water contamination Water erosion
	Wind erosion
380C: Cress	Acid soil
01000	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination Potential for surface-water contamination
	Water erosion
	Wind erosion
Rosholt	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
ļ	Potential for surface-water contamination Water erosion
	Wind erosion
380D: Cress	 Acid soil
Cless	Slope
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter Potential for ground-water contamination
ļ	Potential for surface-water contamination
	Water erosion
	Wind erosion
Rosholt	 Slope
	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination Potential for surface-water contamination
	Water erosion
	Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
383B:	
Mahtomedi	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Wind erosion
383C:	
Mahtomedi	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
383D:	
Mahtomedi	Slope
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
2009	
392C:	Gl and
Rockmarsh	Slope
	Dense layer
	High content of organic matter Limited available water capacity
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Surface rock fragments
	Surface stones
	Wet soil moisture status
Dairyland	Slope
_	Dense layer
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Surface rock fragments
	Surface stones
	Wet soil moisture status
	Wind erosion
Makwa	High content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Surface stones
	Wet soil moisture status
2067	
396B:	
Friendship	
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
SOII Hame	
396B:	
Wurtsmith	Acid soil
	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Wet soil moisture status
	Wind erosion
Grayling	Acid soil
	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	•
	Wind erosion
397A:	
Perchlake	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Wet soil moisture status
	Wind erosion
399B:	
Grayling	Acid soil
-	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Wind erosion
399C:	
Grayling	Acid soil
	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Potential for surface-water contamination
	! -
	Water erosion
	Wind erosion
399D:	
Grayling	Acid soil
	Slope
	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
406A:	
Loxley	Excessive permeability
·	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
407A:	
	High content of organic matter
2002/01110	
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and soil name	considerations
SOII Hame	<u> </u>
407A:	
Markey	Excessive permeability
11021107	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
410A:	
Seelyeville	High content of organic matter
	Ponding Potential for ground-water contamination
	Potential for ground-water contamination Potential for surface-water contamination
	Wet soil moisture status
	Mee boll molbeale beacab
Cathro	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
419A:	
Seelyeville	High content of organic matter
	Ponding Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
Cathro	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
Markey	Excessive permeability
markey	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
421A:	
Dora	High content of organic matter
	Ponding
	Potential for ground-water contamination Potential for surface-water contamination
	Restricted permeability
	Wet soil moisture status
Markey	Excessive permeability
j	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
Soolyovillo	Wigh content of organic matter
Seelyeville	High content of organic matter Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and soil name	considerations
SOII Hame	
422A:	
Seelyeville	High content of organic matter
	Ponding Potential for ground-water contamination
	Potential for surface-water contamination
İ	Wet soil moisture status
Cathra	High gentent of engania matter
Cathro	High content of organic matter Ponding
i	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
Rondeau	High content of organic matter
	Ponding
	Potential for ground-water contamination Potential for surface-water contamination
	Restricted permeability
	Wet soil moisture status
426B:	
Emmert	Excessive permeability
	Limited available water capacity
	Limited content of organic matter Potential for ground-water contamination
	Wind erosion
İ	
Mahtomedi	Excessive permeability Limited available water capacity
	Limited available water capacity Limited content of organic matter
İ	Potential for ground-water contamination
	Wind erosion
Menahga	Acid soil
i	Excessive permeability
	Limited available water capacity
	Limited content of organic matter Potential for ground-water contamination
İ	Wind erosion
426C:	
Emmert	Excessive permeability
	Limited available water capacity
	Limited content of organic matter Potential for ground-water contamination
	Potential for surface-water contamination
j	Water erosion
	Wind erosion
Mahtomedi	Excessive permeability
ļ	Limited available water capacity
	Limited content of organic matter Potential for ground-water contamination
	Potential for surface-water contamination
j	Water erosion
	Wind erosion
Menahga	Acid soil
j	Excessive permeability
	Limited available water capacity
	Limited content of organic matter Potential for ground-water contamination
İ	Potential for surface-water contamination
	Water erosion
	Wind erosion
'	

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
426D:	
Emmert	Slope
Enmier C	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
Mahtomedi	Slope
Mancomedi	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
Menahga	Acid soil
	Slope
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination Potential for surface-water contamination
	Water erosion
	Wind erosion
430A:	
Freya	Excessive permeability
	Limited available water capacity Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Wet soil moisture status
	Wind erosion
439B:	
Graycalm	Excessive permeability
-	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Wind erosion
Menahga	Acid soil
	Excessive permeability
i	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Wind erosion
439C:	[
Graycalm	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
	l e e e e e e e e e e e e e e e e e e e

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
439C:	
Menahga	Acid soil
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination Water erosion
	Wind erosion
	WING GLOSION
439D:	
Graycalm	Slope
	Excessive permeability
İ	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
_	
Menahga	Acid soil
	Slope
	Excessive permeability
	Limited available water capacity Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
i	Water erosion
i	Wind erosion
İ	
442C:	
Haugen	Acid soil
	Dense layer
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Surface stones Water erosion
	Wet soil moisture status
	Wind erosion
	WING GLOSION
Greenwood	Excessive permeability
	High content of organic matter
İ	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
443D:	
Amery	Acid soil
	Slope
	Dense layer Potential for surface-water contamination
· ·	Restricted permeability
	Surface stones
	Water erosion
j	Wind erosion
j	
Greenwood	Excessive permeability
İ	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
459A:	
Loxley	
	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination Wet soil moisture status
	wet soil moisture status
Daisybay	Excessive permeability
DaibyDay	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
Dawson	Acid soil
	Excessive permeability
	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
4613	
461A: Bowstring	Flooding
Bowsci ing	Excessive permeability
	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
465A:	
Newson	Acid soil
	Excessive permeability
	High content of organic matter
	Limited available water capacity
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination Wet soil moisture status
	wer boll motbidle biding
Meehan	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Wet soil moisture status
	Wind erosion
469E:	
Bigisland	_
	Dense layer
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination Surface rock fragments
	Surface stones
	Water erosion
	Wind erosion

Table 6.--Cropland Management Considerations--Continued

Cropland management considerations
Slope Dense layer Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Surface stones Water erosion Wet soil moisture status Wind erosion
Dense layer Excessive permeability Limited available water capacity Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Surface rock fragments Surface stones Wet soil moisture status Wind erosion
Excessive permeability Limited available water capacity Limited content of organic matter Potential for ground-water contamination Surface stones Wind erosion
Dense layer Excessive permeability Limited available water capacity Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Surface rock fragments Surface stones Water erosion Wet soil moisture status Wind erosion
Excessive permeability Limited available water capacity Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination Surface stones Water erosion Wind erosion
Flooding Dense layer High content of organic matter Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Surface rock fragments Surface stones Wet soil moisture status

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
472A:	
Clemens	Flooding
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	•
	Surface rock fragments
	Surface stones
	Wet soil moisture status
473A:	
Dairyland	Dense layer
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Surface rock fragments
	Surface stones
	Wet soil moisture status
	Wind erosion
	wind erosion
Glass.	 B
Skog	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Surface stones
	Wind erosion
484A:	
Greenwood	Excessive permeability
	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
Beseman	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
	HOU DOLL MOIDING BLALUS
485C:	
	High content of organic matter
пар соп	High content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wet soil moisture status
_	
Tawas	:
	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wet soil moisture status
	ı

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	<u> </u>
4057	
495B: Karlsborg	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Wet soil moisture status Wind erosion
	wind elosion
Grettum	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Wind erosion
Perida	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability Wind erosion
	Willia Globion
495C:	
Karlsborg	Excessive permeability
	Limited available water capacity
	Limited content of organic matter Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
İ	Water erosion
	Wet soil moisture status
	Wind erosion
Grettum	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
Perida	Excessive permeability
İ	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability Water erosion
	Wind erosion
İ	
495D:	g1
Karlsborg	-
	Excessive permeability Limited available water capacity
	Limited available water capacity Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Water erosion Wet soil moisture status
· ·	Wet soil moisture status Wind erosion
i	
'	

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
495D:	
Grettum	Slope Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
Perida	Slope
rerida	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Water erosion Wind erosion
496B:	
Karlsborg	Excessive permeability
	Limited available water capacity
	Limited content of organic matter Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Wet soil moisture status
	Wind erosion
496C:	
Karlsborg	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination Restricted permeability
	Water erosion
	Wet soil moisture status
	Wind erosion
496D: Karlsborg	 Slope
Ralisbolg	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Water erosion Wet soil moisture status
	Wind erosion
497A:	
Meenon	
	Limited available water capacity
	Limited content of organic matter Potential for ground-water contamination
	Potential for ground-water contamination Potential for surface-water contamination
	Restricted permeability
	Wet soil moisture status
	Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
521A:	
Dody	Excessive permeability
	High content of organic matter
	Limited available water capacity
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Wet soil moisture status
523A:	
Nokasippi	Dense layer
	Excessive permeability
	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Wet soil moisture status
529B:	
Perida	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Restricted permeability
	Wind erosion
531A:	Branchiliter
Stengel	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Restricted permeability Wet soil moisture status
	Wind erosion
	Wind erosion
542B:	
Haugen, very stony	Acid soil
naugen, very scony	Dense layer
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Surface stones
	Water erosion
	Wet soil moisture status
	Wind erosion
Haugen	Acid soil
	Dense layer
i	Potential for ground-water contamination
i	Potential for surface-water contamination
i	Restricted permeability
i	Water erosion
i	Wet soil moisture status
i	Wind erosion
i	
'	

Table 6.--Cropland Management Considerations--Continued

Map symbol and	Cropland management considerations
soil name	Considerations
542C:	
Haugen, very stony	Acid soil Dense layer
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Surface stones
	Water erosion
	Wet soil moisture status Wind erosion
	Wind erosion
Haugen	Acid soil
	Dense layer
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Water erosion Wet soil moisture status
	Wind erosion
544F:	
Menahga	Acid soil
	Slope
	Excessive permeability Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
Mahtomedi	 Slope
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination Potential for surface-water contamination
	Water erosion
	Wind erosion
553B:	Limited content of organic matter
Branstad	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wet soil moisture status
	Wind erosion
553C:	
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wet soil moisture status
	Wind erosion
553D:	
Branstad	Slope
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion Wet soil moisture status
	Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
555A:	
Fordum	Flooding
	Excessive permeability
	Ponding
	Potential for ground-water contamination Potential for surface-water contamination
	Wet soil moisture status
557B:	
Shawano	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Wind erosion
557C:	
Shawano	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
557D:	
Shawano	 Slope
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
586A:	
Chelmo	Excessive permeability
	Limited available water capacity
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability Wet soil moisture status
	wet soil moisture status
600A:	
Haplosaprists	Onsite investigation required
Psammaquents	Onsite investigation required
C15D	
615B:	Acid soil
Cress	ACIG SOII Excessive permeability
	Limited available water capacity
	Limited available water capacity Limited content of organic matter
	Potential for ground-water contamination
	Water erosion
	Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and soil name	considerations
SOII Hame	<u> </u>
615C: Cress	Acid soil Excessive permeability Limited available water capacity Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination
	Water erosion
	Wind erosion
615D:	
Cress	Acid soil Slope Excessive permeability Limited available water capacity Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination
	Water erosion Wind erosion
	Willia erosion
620C:	
Lundeen	Acid soil Depth to rock
	Potential for ground-water contamination
	Potential for surface-water contamination
	Surface stones Water erosion
	water erosion
Haustrup	Acid soil
	Depth to rock Limited available water capacity
	Potential for ground-water contamination
	Potential for surface-water contamination Surface stones
	Water erosion
Rock outcrop	Not applicable
621A:	
Bjorkland	Acid soil Excessive permeability
	High content of organic matter
	Ponding
	Potential for ground-water contamination Potential for surface-water contamination
	Restricted permeability
	Wet soil moisture status
623A:	
Capitola	
	Limited available water capacity Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination Restricted permeability
	Surface stones
	Wet soil moisture status
624A:	
Ossmer	Excessive permeability
	Potential for ground-water contamination
	Potential for surface-water contamination Wet soil moisture status

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
631A:	
Giese	Dense layer
	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Surface stones
	Wet soil moisture status
632A:	
Aftad	Potential for ground-water contamination Wet soil moisture status
	Wind erosion
	Willia Clobion
632B:	
Aftad	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wet soil moisture status
	Wind erosion
632C:	
Aftad	Potential for ground-water contamination Potential for surface-water contamination
	Water erosion
	Wet soil moisture status
	Wind erosion
634C:	
Drylanding	Depth to rock
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination Potential for surface-water contamination
	Potential for surface-water contamination
Beartree	Depth to rock
	High content of organic matter
	Limited available water capacity
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
Paralla and manage	Note and the late
Rock outcrop	NOT applicable
635C:	
Drylanding	Depth to rock
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
Beartree	Depth to rock
	High content of organic matter
	Limited available water capacity
	Ponding Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
	,
Rock outcrop	Not applicable

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
648B: Sconsin	Penge leven
SCONSIN	Dense layer Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Water erosion
	Wet soil moisture status
669D:	
Fremstadt, stony	Slope Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Surface stones
	Water erosion
	Wind erosion
Parrana	
Pomroy	Slope Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wet soil moisture status
	Wind erosion
671B:	
Spoonerhill, stony	Dense layer
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Surface stones
	Water erosion
	Wet soil moisture status
Spoonerhill	Dense layer
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Water erosion
	Wet soil moisture status
	1
7062 •	
706A: Winterfield	 Flooding
	 Flooding Excessive permeability
	Excessive permeability
	Excessive permeability Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination
	Excessive permeability Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status
	Excessive permeability Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination
Winterfield	Excessive permeability Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
	Excessive permeability Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion Flooding
Winterfield	Excessive permeability Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion
Winterfield	Excessive permeability Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion Flooding Excessive permeability
Winterfield	Excessive permeability Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion Flooding Excessive permeability Limited available water capacity
Winterfield	Excessive permeability Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion Flooding Excessive permeability Limited available water capacity Limited content of organic matter Ponding Potential for ground-water contamination
Winterfield	Excessive permeability Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion Flooding Excessive permeability Limited available water capacity Limited content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination
Winterfield	Excessive permeability Limited available water capacity Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion Flooding Excessive permeability Limited available water capacity Limited content of organic matter Ponding Potential for ground-water contamination

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
715A:	
	Dense layer
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Surface stones
İ	Wet soil moisture status
717B: Milaca	Dense layer
MIIACA	Potential for ground-water contamination
l	Potential for surface-water contamination
l	Restricted permeability
	Surface stones
	Water erosion
	Wet soil moisture status
i	NOO BOLL MOLDOULO BOUGE
717C:	
Milaca	Dense layer
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Surface stones
	Water erosion
	Wet soil moisture status
720F:	
Haustrup	Acid soil
	Slope
	Depth to rock
	Limited available water capacity
	Potential for ground-water contamination
	Potential for surface-water contamination
	Surface stones
	Water erosion
 Lundeen	Acid soil
	Slope
	Depth to rock
	Potential for ground-water contamination
	Potential for surface-water contamination
	Surface stones
İ	Water erosion
Rock outcrop	Not applicable
726B:	
Sissabagama	Excessive permeability
	Limited available water capacity
İ	Potential for ground-water contamination
j	Wind erosion
7420	
742B: Milaca	Dense laver
	Potential for ground-water contamination
	Potential for ground-water contamination Potential for surface-water contamination
1	
	Restricted permeability
	Surface stones
 	Surface stones Water erosion
	Surface stones

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
742C:	
Milaca	Dense layer
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Surface stones
	Water erosion
	Wet soil moisture status
	Wind erosion
742D:	
Milaca	Slope
	Dense layer
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Surface stones
	Water erosion
	Wet soil moisture status
	Wind erosion
755A:	
Moppet	Acid soil
	Flooding
	Excessive permeability
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wind erosion
_ ,	
Fordum	Flooding
	Excessive permeability
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
771A:	
Lenroot	Excessive permeability
Helitooc	
	Limited available water capacity Limited content of organic matter
	_
	Potential for ground-water contamination Wet soil moisture status
	Wind erosion
	Wind elosion
812B:	
Mora	Dense laver
MOI a	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Surface stones
	Water erosion
	water erosion Wet soil moisture status
	Wet soil moisture status Wind erosion
	wind elosion
9257.	
825A:	Fugagaine normachilit
Meehan	
	Limited available water capacity
	Potential for ground-water contamination
	Wet soil moisture status
	Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
896A:	
Wurtsmith	Acid soil
	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Wet soil moisture status
	Wind erosion
980A:	
Soderbeck	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Surface rock fragments
	Surface stones
	Wet soil moisture status
1070C:	
Fremstadt	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Surface stones
	Water erosion
Cress	Acid soil
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
10000	
1070D:	Clana
Fremstadt	Slope
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination Potential for surface-water contamination
	Surface stones
	Water erosion
Cress	Acid soil
	Slope
i	Excessive permeability
i	Limited available water capacity
i	Limited content of organic matter
i	Potential for ground-water contamination
i	Potential for surface-water contamination
j	Water erosion
j	Wind erosion
İ	
1080B:	
Spoonerhill	Dense layer
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Water erosion
	Wet soil moisture status

Table 6.--Cropland Management Considerations--Continued

Man grmhol	Cropland management
Map symbol and	Cropland management considerations
	considerations
soil name	
1000D	
1080B:	 Banas 1
Spoonerhill, stony	Dense layer
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Surface stones
	Water erosion
	Wet soil moisture status
_	
Cress	Acid soil
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Water erosion
	Wind erosion
2002:	
Udorthents, earthen dams	Not applicable
2015:	
Pits	Not applicable
2050:	
Landfill	Not applicable
3011A:	
Barronett	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
3082E:	
Braham	Slope
	Excessive permeability
	Limited content of organic matter
	Potential for ground-water contamination
	Water erosion
	Wind erosion
Shawano	Slope
	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Water erosion
	Wind erosion
3114A:	
Saprists	High content of organic matter
	Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
Aquents	Acid soil
-	Excessive permeability
	High content of organic matter
	Limited available water capacity
	Donding
	Potential for ground-water contamination
	Potential for ground-water contamination Potential for surface-water contamination
	Potential for surface-water contamination Wet soil moisture status
	wet soll moisture status
	I

Table 6.--Cropland Management Considerations--Continued

Map symbol and considerations 3114A: Aquepts		
3114A: Aquepts	:	
3114A: Aquepts		considerations
Aquepts	soil name	
Aquepts	21143.	
High content of organic matter Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status 3125A: Meehan		Excessive permeability
Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Excessive permeability		
Potential for surface-water contamination Wet soil moisture status Meehan	į	
Wet soil moisture status	į	Potential for ground-water contamination
Meehan		
Excessive permeability Limited available water capacity Potential for ground-water contamination Wet soil moisture status Wind erosion		Wet soil moisture status
Excessive permeability Limited available water capacity Potential for ground-water contamination Wet soil moisture status Wind erosion		
Limited available water capacity Potential for ground-water contamination Wet soil moisture status Wind erosion 3126A: Wurtsmith		Evangaina parmashilitu
Potential for ground-water contamination Wet soil moisture status Wind erosion 3126A: Wurtsmith	Meenan	
Wind erosion	j	
3126A: Wurtsmith	į	_
Wurtsmith	ĺ	Wind erosion
Wurtsmith		
Excessive permeability Limited available water capacity Potential for ground-water contamination Wet soil moisture status Wind erosion 3312B: Glendenning, very stony		
Limited available water capacity Potential for ground-water contamination Wet soil moisture status Wind erosion 3312B: Glendenning, very stony	Wurtsmith	
Potential for ground-water contamination Wet soil moisture status Wind erosion 3312B: Glendenning, very stony	l I	
Wet soil moisture status Wind erosion 3312B: Glendenning, very stony		
3312B: Glendenning, very stony Acid soil Dense layer Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Surface stones Water erosion Wet soil moisture status Glendenning	j	_
Glendenning, very stony Acid soil Dense layer	į	Wind erosion
Glendenning, very stony Acid soil Dense layer		
Dense layer Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Surface stones Water erosion Wet soil moisture status Glendenning		
Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Surface stones Water erosion Wet soil moisture status Glendenning	Glendenning, very stony	
Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Surface stones Water erosion Wet soil moisture status Glendenning		-
Potential for surface-water contamination Restricted permeability Surface stones Water erosion Wet soil moisture status Glendenning	l I	_
Restricted permeability Surface stones Water erosion Wet soil moisture status Glendenning		_
Water erosion Wet soil moisture status Acid soil Dense layer Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Water erosion Wet soil moisture status 3336A: Fenander	İ	
Glendenning	į	Surface stones
Glendenning		Water erosion
Dense layer Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Water erosion Wet soil moisture status 3336A: Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion 3403A: Excessive permeability High content of organic matter Ponding		Wet soil moisture status
Dense layer Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Water erosion Wet soil moisture status Ponding Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion Wet soil moisture status Wind erosion Wet soil moisture status Wind erosion	Glandan da	2012 0013
Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Water erosion Wet soil moisture status	Glendenning	
Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Water erosion Wet soil moisture status 3336A: Fenander		
Restricted permeability Water erosion Wet soil moisture status 3336A: Fenander	İ	_
Water erosion Wet soil moisture status 3336A: Fenander	ĺ	Potential for surface-water contamination
Wet soil moisture status 3336A: Fenander		
3336A: Fenander		
Fenander		Wet soil moisture status
Fenander	33363.	
Potential for ground-water contamination Potential for surface-water contamination Wet soil moisture status Wind erosion 3403A: Loxley		Ponding
Wet soil moisture status Wind erosion		Potential for ground-water contamination
Wind erosion	į	Potential for surface-water contamination
3403A: Excessive permeability High content of organic matter Ponding		Wet soil moisture status
Loxley Excessive permeability High content of organic matter Ponding		Wind erosion
Loxley Excessive permeability High content of organic matter Ponding	24023	
High content of organic matter Ponding		Evacasivo pormoshilit
Ponding	TOVIEA	
i -		-
	İ	Potential for ground-water contamination
Potential for surface-water contamination	į	
Wet soil moisture status	İ	Wet soil moisture status
Beseman High content of organic matter	Beseman	
Ponding Potential for ground-water contamination		-
Potential for ground-water contamination Potential for surface-water contamination	I I	_
Wet soil moisture status		
j	i	

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
2422	
3403A:	
Dawson	Acid soil
	Excessive permeability
	High content of organic matter Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
3429B:	
Lara	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Wet soil moisture status
	Wind erosion
24200	
3429C:	 Limited available water coresity
пата	Limited available water capacity Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Restricted permeability
	Water erosion
	Wet soil moisture status
	Wind erosion
3446A:	
Newson	Acid soil
	Excessive permeability
	High content of organic matter
	Limited available water capacity Ponding
	Potential for ground-water contamination
	Potential for surface-water contamination
	Wet soil moisture status
3448B:	
Grettum	Excessive permeability
	Limited available water capacity
	Potential for ground-water contamination
	Wind erosion
24409	
3448C:	Burneline neumanhilite
Grettum	
	Limited available water capacity Potential for ground-water contamination
	Water erosion
	Wind erosion
3510B:	
Pomroy	Excessive permeability
-	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Potential for surface-water contamination
	Surface stones
	Wet soil moisture status
	Wind erosion

Table 6.--Cropland Management Considerations--Continued

	
Map symbol and	Cropland management considerations
soil name	considerations
SOII Hame	<u> </u>
3510B:	
Fremstadt	Limited available water capacity Limited content of organic matter Potential for ground-water contamination Surface stones
	Wind erosion
Fremstadt, stony	Limited available water capacity Limited content of organic matter Potential for ground-water contamination Wind erosion
3510C:	
Pomroy	Excessive permeability Limited available water capacity Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination Surface stones Water erosion Wet soil moisture status Wind erosion
Fremstadt	Limited available water capacity Limited content of organic matter Potential for ground-water contamination Water erosion Wind erosion
Fremstadt, stony	Limited available water capacity Limited content of organic matter Potential for ground-water contamination Surface stones Water erosion Wind erosion
3511A:	
Bushville	Dense layer Excessive permeability Limited available water capacity Limited content of organic matter Potential for ground-water contamination Potential for surface-water contamination Restricted permeability Wet soil moisture status Wind erosion
3516A: Slimlake	Excessive permeability Limited available water capacity Potential for ground-water contamination Wind erosion
3625A: Lino	Acid soil Excessive permeability Limited available water capacity Limited content of organic matter Potential for ground-water contamination Wet soil moisture status Wind erosion

Table 6.--Cropland Management Considerations--Continued

Map symbol	Cropland management
and	considerations
soil name	
3626A:	
	Acid soil
Crex	
	Excessive permeability Limited available water capacity
	Potential for ground-water contamination
	Wet soil moisture status
	Wind erosion
3629B:	
Perida	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Restricted permeability
	Wind erosion
3636B:	
Plainbo	Depth to rock
r raimbo	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
i	Potential for ground-water contamination
i	Wind erosion
3636C: Plainbo	Depth to rock
Plaliibo	Excessive permeability
	Limited available water capacity
	Limited content of organic matter
	Potential for ground-water contamination
	Water erosion
i	Wind erosion
M-W.	
Miscellaneous water	
W.	
Water	

Table 7a.--Land Capability and Yields per Acre of Crops and Pasture

(Yields are those that can be expected under a high level of management. They are for nonirrigated areas. Yields for stony or very stony map units are based on the assumption that the stones have been removed. Absence of a yield indicates that the soil is not suited to the crop or the crop generally is not grown on the soil)

Map symbol and soil name	Land capability	Alfalfa hay	Corn	Corn silage	Oats	Soybeans
		Tons	Bu	Tons	Bu	Bu
 A						
Totagatic	7w	i i		i i	i	
Bowstring	7w	i i		i i	j	
Ausable	7w	į į		į į	į	
 12A Makwa	7w					
22A Comstock	2w	4.2	105	16.0	75	36
27A Scott Lake	2s	3.8	95	15.0	70	32
28B		3.4	85	14.0	65	28
Haugen, very stony	4s					
Haugen	2e	į l		į I	I	
Rosholt, very stony	4s	į l		į I	I	
Rosholt	2s					
8C		3.2	80	13.0	65	26
Haugen, very stony	6s					
Haugen	3e					
Rosholt, very stony	6 s					
Rosholt	3e					
8A Rosholt	2s	4.0	100	15.0	75	34
88B Rosholt	2s	3.8	95	15.0	70	32
88C Rosholt	3e	3.6	90	14.0	70	30
38D Rosholt	4e	3.4	85	14.0	65 	28
42D Amery	6 s	3.0	75	13.0	60	24
	2e	3.8	95	15.0	70	32
	3e	3.6	90	14.0	70	30
GA Crystal Lake	1	4.6	115	17.0	75	40
	2e	4.4	110	16.0	75	38
63C Crystal Lake	3e	4.2	105	16.0	75 	36

Table 7a.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and soil name	Land capability	Alfalfa hay	Corn	Corn silage	Oats	Soybeans
		Tons	Bu	Tons	Bu	Bu
64A						
Totagatic	7w	į į		į į	ĺ	
Winterfield	4w	į į		į į	į	
69C		2.0	40	9.0	35	14
Keweenaw	4s				1	
Sayner	6s	i i		i i	i	
Vilas	6s	i i		i i	İ	
		į į		į į	İ	
69E	_					
Keweenaw	7s				ļ	
Sayner	7s				ļ	
Vilas	7s				l	
82B		3.8	95	15.0	70	32
Cutaway	2e	i i		i i	i	
Branstad	2e	i i		i i	į	
82C		3.6	90	14.0	70	30
82C Cutaway	3e] 3.0	90	14.0	/0	30
Branstad	3e 3e				l I	
Branstad	3e				l I	
83A	3w	3.0	75	13.0	60	24
Smestad		į į		ļ ļ	ļ	
85B	2-		0.0	12.0	(F.	26
Taylor	3s	3.2	80	13.0	65	26
laylor					 	
85C	3s	3.0	75	13.0	60	24
Taylor		i i		i i	į	
86A	_	3.2	80	13.0	65	26
Indus	6w				ļ	
Alango	2w				l I	
89A	6w					
Wildwood		i i		i i	į	
]	ļ	
96B	3s	2.6	65	12.0	55	20
Karlsborg					l	
96C	4s	2.4	60	11.0	55	18
Karlsborg		i i		i i	į	
		<u> </u>		į į	ļ	
96D	6s	2.2	55	11.0	50	18
Karlsborg					l	
100B	4s	2.0	40	9.0	35	14
Menahga	15	2.0	10] 3.0	33	11
Ī		į į		i i	į	
100C	6s	2.0	40	9.0	35	14
Menahga		į į		ļ ļ	ļ	
100D	7s					
Menahga	75					
					ľ	
120B	4s	2.2	55	11.0	50	18
Kost		į į		į į	į	
1070						0.1
127D Amery	6-	3.0	75	13.0	60	24
Rosholt	6s 6s				l I	
VOBIIOT C	ບຮ	1		1	I	

Table 7a.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and soil name	Land capability	 Alfalfa hay 	Corn	Corn silage	Oats	Soybeans
	-	Tons	Bu	Tons	Bu	Bu
127E						
Amery	7s					
Rosholt	7s					
151A Bluffton	6w					
152AAlstad	2w	3.6	90	14.0	70	30
154ECushing	6e	3.4	85	14.0	65 	28
156B		3.4	85	14.0	65	28
Magnor, very stony	4s	į į		i i	j	
Magnor	2w	į į		į į	į	
157B		3.8	95	15.0	70	32
Freeon, very stony	4s	i				
Freeon	2e	į i		į i	i	
157C		3.6	90	14.0	70	30
Freeon, very stony	6s]	50	1 11.0	, ,	
Freeon	3e	i i		i i	į	
160A	2w	3.4	85	14.0	65	28
Oesterle	2 W	3.4	65	14.0	05	20
		!] [
165BElderon	4s	2.2	55	11.0	50	18
185B		3.4	85	14.0	65	28
Tradelake	2e] 3.4	65	14.0	65	20
Taylor	2e					
185C	_	3.2	80	13.0	65	26
Tradelake	3e					
Taylor	3e					
185D		3.0	75	13.0	60	24
Tradelake	4e					
Taylor	4e					
185E		2.8	70	12.0	60	
Tradelake	6e					
Taylor	6e					
189A Siren	2w	3.2	80	13.0	65	26
193A	6w					
Minocqua						
337A Plover	2w	3.6	90	14.0	70	30
368B		2.0	50	10.0	45	16
Mahtomedi	4s	į į		į į	i	
Cress	3s	į į		į į		
368C		2.0	45	10.0	40	16
Mahtomedi	6s		13	10.0	±0	
Cress	4e	į į		į į	i	
		i i		i i		

Table 7a.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and soil name	Land capability	Alfalfa hay	Corn	Corn silage	Oats	Soybeans
	- -	Tons	Bu	Tons	Bu	Bu
368D		2.0	40	9.0	35	14
Mahtomedi	7s	i i		i i	j	
Cress	6e	į į		į į		
 368E		2.0	35	9.0	30	
Mahtomedi	7s					
Cress	7e	į į		į į		
 380B		2.8	70	12.0	60	22
Cress	3s	i i		i i		
Rosholt	2s	į į		i i		
 		2.6	65	12.0	55	20
Cress	4e					
Rosholt	3e	i i				
 380D			60	11.0		10
380D Cress	6 -	2.4	60	11.0	55	18
Rosholt	6e 4e					
ROSHOIT	46					
383B Mahtomedi	4s	2.0	35	9.0	30	14
383C Mahtomedi	6s	2.0	30	8.0	25	12
383D Mahtomedi	7s					
392C						
Rockmarsh	7s	i i		i i	j	
Dairyland	7s	i i		i i	j	
Makwa	6w	į į		į į		
 396B		2.0	35	9.0	30	14
Friendship	4s	i i		i i		
Wurtsmith	4s	i i		i i		
Grayling	4s	į į		į į		
397A Perchlake	4w	2.2	55	11.0	50	18
399B Grayling	4s	2.0	35	9.0	30	14
399C Grayling	6s	2.0	30	8.0	25	12
į		i i				
399D Grayling	7s	 				
406A Loxley	7w					
Seelyeville	7w	į į		i i	j	
Markey	7w	į į		1 1		
410A						
Seelyeville	7w					
Cathro	7 w	j		1		
		1 1		i i		

Table 7a.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and soil name	Land capability	Alfalfa hay	Corn	Corn silage	Oats	Soybeans
		Tons	Bu	Tons	Bu	Bu
19A						
Seelyeville	7w	į į		i i		
Cathro	7w	i i		i i		
Markey	7w	i i		i i		
Dora	7w					
Markey	7w					
Seelyeville	7w					
22A		i i		i i		
Seelyeville	7w					
Cathro	7w					
Rondeau	7w	! !		į į		
26B		2.0	40	9.0	35	14
Emmert	4s					
Mahtomedi	4s					
Menahga	4s			i i		
<u></u>		ļ <u>i</u>		ļ į		
26C		2.0	35	9.0	30	14
Emmert	6s					
Mahtomedi	6s					
Menahga	6s					
26D						
Emmert	7s	i i		i i		
Mahtomedi	7s	i i		i		
Menahga	7s	i i		i i		
30A	4w	2.6	65	12.0	55	20
Freya	±w.	2.0	65	12.0	55	
rieya						
39B		2.0	50	10.0	45	16
Graycalm	4s					
Menahga	4s					
 		2.0	45	10.0	40	16
Graycalm	6s	i :				
Menahga	6s	i i		i i		
39D	_					
Graycalm Menahga	7s 7s					
		i i		i i		
42C		3.2	80	13.0	65	26
Haugen	6s					
Greenwood	7w					
43D		3.0	75	13.0	60	24
Amery	7s					
Greenwood	7w	i i				
		i i		i i		
59A						
Loxley	7w					
Daisybay	7w	į į		į į		
Dawson	7w	ļ į		į į		
61A	7w					
	, 					- -
Bowstring		1		1		

Table 7a.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and soil name	Land capability	Alfalfa hay	Corn	Corn silage	Oats	Soybeans
		Tons	Bu	Tons	Bu	Bu
465A		2.0	50	10.0	45	
Newson	6w					
Meehan	4w					
469E						
Bigisland	7s	i i		i i		
Milaca	7s	i i		į į	j	
471B						
Dairyland	7s					
Emmert	7s					
		į į		į į		
471C Dairyland	7s					
Emmert	7s 7s			1		
Daniel C	, 5					
472A	_					
Rockmarsh	7s					
Clemens	7s					
473A				i i		
Dairyland	7s					
Skog	7s					
484A						
Greenwood	7w	i i		i i	j	
Beseman	7w	į į		<u> </u>		
485C						
Lupton	7w	i i		i i		
Tawas	7w	i i		i i	i	
495B		2.2	55	11.0	50	18
Karlsborg	3s	2.2	33	11.0	30	10
Grettum	4s	i i		i i		
Perida	4s	i i		i i	į	
495C		2.0	50	10.0	45	16
Karlsborg	4s	1 2.0	30	1	13	
Grettum	6s	i i		i i		
Perida	6s	i i		i i	j	
495D		2.0	45	10.0	40	16
Karlsborg	6s	2.0	45	10.0	40	10
Grettum	7s					
Perida	7s			i i		
496B	2-					1.0
Karlsborg	3s	2.4	60	11.0	55	18
_		i i		i i		
496C	4s	2.2	55	11.0	50	18
Karlsborg						
496D	6s	2.0	50	10.0	45	16
Karlsborg		į i		į i		
497A	4w	2.6	65	12.0	55	20
Meenon	-zw	2.0	65	12.0	55	20
İ		į į		į i		
521A	6w					
Dody		1		1		

Table 7a.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and soil name	Land capability	Alfalfa hay	Corn	Corn silage	Oats	Soybeans
		Tons	Bu	Tons	Bu	Bu
523A Nokasippi	6w					
529B Perida	4s	2.2	55	11.0	50	18
531A Stengel	4w	2.4	60	11.0	55	18
542B Haugen, very stony Haugen	4s 2e	3.4	85	14.0	65	28
542C Haugen, very stony Haugen	6s 3e	3.2	80	13.0	65	26
544F Menahga Mahtomedi	7s 7s					
 553B Branstad	2e	4.0	100	15.0	75	34
553C Branstad	3e	3.8	95	15.0	70	32
553D Branstad	4 e	3.6	90	14.0	70	30
555A Fordum	6w					
557B Shawano	4s	2.2	55	11.0	50	18
557C Shawano	6s	2.0	50	10.0	45	16
557D Shawano	7s					
586A Chelmo	6w					
600A Haplosaprists Psammaquents	6w 6w	 				
615B Cress	3s	2.6	65	12.0	55	20
 	4e	2.4	60	11.0	55	18
615D Cress	6e	2.2	55	11.0	50	18
620C Lundeen Haustrup Rock outcrop	6s 6s 8	2.6	65	12.0	55	

Table 7a.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and soil name	Land capability		Corn	Corn silage	Oats	Soybeans
		Tons	Bu	Tons	Bu	Bu
621A Bjorkland	6w					
623A	7w					
624A	2w	3.8	95	15.0	70	32
631A	6w					
632A Aftad	1	4.0	100	15.0	75	34
632B Aftad	2e	3.8	95	15.0	70	32
632C	3e	3.6	90	14.0	70	30
634C Drylanding Beartree Rock outcrop	7s 7w 8	 				
635C Drylanding Beartree Rock outcrop	7s 7w 8	 		 		
648BSconsin	2e	4.0 4.0	100	15.0	75	34
669D Fremstadt Pomroy	6e 6e	2.0 	50	10.0	45	16
671BSpoonerhill, stonySpoonerhill	3s 3s	2.6 2.6 	65	12.0 	55	20
706A Winterfield Totagatic	4w 7w	 				
715A Mora	4s	3.4	85	14.0	65	28
717B Milaca	4s	3.6	90	14.0	70	30
717C Milaca	6s	3.4	85	14.0	65	28
720F	6s 6s 8					
726B Sissabagama	4s	 2.4 	60	11.0	55	18

Table 7a.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and soil name	Land capability	Alfalfa hay	Corn	Corn silage	Oats	Soybeans
		Tons	Bu	Tons	Bu	Bu
742B Milaca	4s	3.2	80	13.0	65	26
742C Milaca	6s	3.0	75	13.0	60	24
742D Milaca	6s	2.8	70	12.0	60	22
755A Moppet Fordum	3w 6w					
771A Lenroot	4s	2.0	50	10.0	45	16
812B Mora	4s	3.0	75	13.0	60	24
825A Meehan	4w	2.0	40	9.0	35	14
896A Wurtsmith	4s	2.0	40	9.0	35	14
980A Soderbeck	7s					
1070C Fremstadt Cress	4e 4e	2.2	55	11.0	50	18
1070D	6e 6e	2.0	50	10.0	45	16
1080B Spoonerhill	3s 3s 3s	2.4	60	11.0	55	18
2002. Udorthents, earthen dams						
 2015.						
2050. Landfill						
3011A Barronett	6w					
3082E Braham Shawano	6e 7s	2.8	70	12.0	60	22
3114A Saprists Aquents	8w 8w	 		 		
Aquepts	8w					

Table 7a.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and soil name	Land capability	 Alfalfa hay 	Corn	 Corn silage 	Oats	Soybeans
		Tons	Bu	Tons	Bu	Bu
3125A Meehan	 4w 	 2.0 	 50 	 10.0 	 45 	 16
3126A Wurtsmith	4s 4s	2.4	60	11.0	55 	18
3312B Glendenning, very stony Glendenning	 4s 2w	3.2 	80 	13.0 	65 	 26
3336AFenander	6w	 				
3403A Loxley Beseman Dawson	 7w 7w 7w	 		 		
3429B Lara	 3s 	 2.8 	70 	12.0	60 	 22
3429C Lara	 4e 	2.6	65 	 12.0 	 55 	 20
3446ANewson	 6w 	 		 		
3448BGrettum	 4s 	2.0	 45 	10.0	 40 	 16
3448CGrettum	 6s 	2.0	 40 	9.0	 35 	 14
3510B Pomroy Fremstadt, stony Fremstadt	 3e 3s 3s	 2.4 	60	 11.0 	55 	 18
3510C Pomroy Fremstadt Fremstadt, stony	 4e 4s 4s	 2.2 	55 	 11.0 	 50 	 18
3511ABushville	 2w 	 2.4 	 60	 11.0	 55 	 18
3516ASlimlake	 3s 	 2.6 	 65 	 12.0 	 55 	 20
3625ALino	 4w 	 2.4 	60 	 11.0 	 55 	 18
3626ACrex	 4s 	 2.2 	 55 	 11.0 	50 	 18
3629B Perida	 4s 	 2.0 	 50 	 10.0 	 45 	 16
3636B Plainbo	 4s 	 2.0 	 40 	 9.0 	 35 	

Table 7a.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol	Land	Alfalfa hay	Corn	Corn silage	Oats	Soybeans
and soil name	capability					
		Tons	Bu	Tons	Bu	Bu
 636C	6s	2.0	35	9.0	30	
Plainbo		į į				
 1-W.						
Miscellaneous water		į į		į į	į	
7.						
Water					i	
i		i i		i i	i	

Table 7b.--Land Capability and Yields per Acre of Crops and Pasture

(Yields are those that can be expected under a high level of management. They are for nonirrigated areas. Yields for stony or very stony map units are based on the assumption that the stones have been removed. Absence of a yield indicates that the soil is not suited to the crop or the crop generally is not grown on the soil)

Map symbol and soil name	Land capability	<u>'</u>	Orchard-	Orchard- grass-red clover	Red clover hay	Timothy- alsike
		Tons	Tons	Tons	Tons	Tons
3A						
Totagatic	7w					
Bowstring	7w					
Ausable	7w					
12A Makwa	7w	 				
22A Comstock	2w	2.8	3.6 3.6	3.8	3.2	3.4
27A Scott Lake	2s	 2.4 	3.2 3.2	3.4	2.8	3.0
28B		2.0	2.8	3.0	2.4	2.6
Haugen, very stony	4s					
Haugen	2e					
Rosholt, very stony	4s					
Rosholt	2s					
28C		1.8	2.6	2.8	2.2	2.4
Haugen, very stony	6s					
Haugen	3e					
Rosholt, very stony	6s					
Rosholt	3e					
38A Rosholt	2s	2.6	3.4	3.6	3.0	3.2
38B Rosholt	2s	2.4	3.2	3.4	2.8	3.0
38C Rosholt	3e	2.2	3.0	3.2	2.6	2.8
38D Rosholt	4e	2.0	2.8	3.0	2.4	2.6
42D Amery	6s	1.6		2.6	2.0	2.2
43B Antigo	2e	2.4	3.2	3.4	2.8	3.0
43C Antigo	3e	2.2	3.0	3.2	2.6	2.8
63A Crystal Lake	1	3.2	4.0 	4.2	3.6	3.8
63B Crystal Lake	2e	3.0	3.8 	4.0	3.4	3.6
63C Crystal Lake	3e	2.8	3.6	3.8	3.2	3.4

Table 7b.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and soil name	Land capability	Bluegrass- white clover	 Orchard- grass-alsike	Orchard- grass-red clover	 Red clover hay	Timothy- alsike
		Tons	Tons	Tons	Tons	Tons
54A	7					
Totagatic Winterfield	7w 4w		 			
WINCELLIEIG	- w		 			
69C		1.0	1.6	1.8	1.4	1.4
Keweenaw	4s					
Sayner	6s					
Vilas	6s					
69E		1.0	 			l I
Keweenaw	7s		 			
Sayner	7s	İ				
Vilas	7s	į	j		j	
I						
82B		2.4	3.2	3.4	2.8	3.0
Cutaway	2e					
Branstad	2e					
 82C		2.2	 3.0	3.2	2.6	2.8
Cutaway	3e		313	3.2		
Branstad	3e	İ	İ		İ	
İ		İ	İ		İ	ĺ
83A	3w	1.6	2.4	2.6	2.0	2.2
Smestad						
 85B	3s	1.8	 2.6	2.8	2.2	2.4
Taylor	38	1.0	2.6	2.0	2.2	2.4
14,101						
85C	3s	1.6	2.4	2.6	2.0	2.2
Taylor		j	į į		j	İ
		İ			ļ	
86A	_	1.8	2.6	2.8	2.2	2.4
Indus	6w					l I
Alango	2w	1	 			
89A	6w		 			
Wildwood		İ	İ			
İ		İ	İ		İ	ĺ
96B	3s	1.2	2.0	2.2	1.6	1.8
Karlsborg						
96C	4s	1.0	 1.8	2.0	1.4	1.6
Karlsborg	45	1.0	1.0	2.0	1.4	1.0
Rullbolg						
96D	6s	1.0	1.6	1.8	1.4	1.4
Karlsborg		İ	İ		İ	ĺ
		İ			ļ	
100B	4s	1.0	1.6	1.8	1.4	1.4
Menahga						
100C	6s	1.0	 1.6	1.8	1.4	1.4
Menahga	0.5		1.0	1.0		
		İ	İ			
100D	7s	j	i i		j	
Menahga		[İ		[
120B	4s	1.0	1.6	1.8	1.4	1.4
Kost		1	 		1	
127D		1.6	 2.4	2.6	2.0	2.2
Amery	6s		<u>4.</u> 4	2.0	2.0	, 2.2
Rosholt	6s	İ				
		1			1	

Table 7b.--Land Capability and Yields per Acre of Crops and Pasture--Continued

	Orchard-								
Map symbol	Land	 Bluegrass-	Orchard-	grass-red	 Red clover	Timothy-			
and soil name	capability	white clover		clover	hay	alsike			
		Tons	Tons	Tons	Tons	Tons			
127E		 	 			 			
Amery	7s	i	i						
Rosholt	7s	į	į į						
 151A	6w	 	 			 			
Bluffton									
152A	2w	2.2	3.0	3.2	2.6	2.8			
Alstad		į							
154E	6e	2.0	 2.8	3.0	2.4	2.6			
Cushing						 			
156B		2.0	2.8	3.0	2.4	2.6			
Magnor, very stony	4s								
Magnor	2w	 				 			
157B		2.4	3.2	3.4	2.8	3.0			
Freeon, very stony	4s								
Freeon	2e	 	 						
157C		2.2	3.0	3.2	2.6	2.8			
Freeon, very stony	6s								
Freeon	3e	 							
160A	2w	2.0	2.8	3.0	2.4	2.6			
Oesterle		 	 		 				
165B	4s	1.0	1.6	1.8	1.4	1.4			
Elderon		[
185B		2.0	2.8	3.0	2.4	2.6			
Tradelake	2e								
Taylor	2e					 			
185C		1.8	2.6	2.8	2.2	2.4			
Tradelake	3e								
Taylor	3e	 	 		 				
185D		1.6	2.4	2.6	2.0	2.2			
Tradelake	4e								
Taylor	4e	[[
185E		1.4	2.2	2.4	1.8	2.0			
Tradelake	6e								
Taylor	6e	 	 						
189A	2w	1.8	2.6	2.8	2.2	2.4			
Siren]			
193A	6w	1.0	i i						
Minocqua						 			
337A	2w	2.2	3.0	3.2	2.6	2.8			
Plover			ļ						
368B		1.0	1.6	1.8	1.4	1.4			
Mahtomedi	4s	1	l İ						
Cress	3s								

Table 7b.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol	Land	 Bluegrass-	Orchard-	Orchard- grass-red	 Red clover	Timothy-
and soil name	capability		grass-alsike	clover Tons	hay Tons	alsike Tons
	 	Tons	10ns	Tons	l	Tons
368C		1.0	1.6	1.8	1.4	1.4
Mahtomedi	6s					
Cress	4e					
368D	 	1.0	 1.6	1.8	1.4	 1.4
Mahtomedi	7s	İ	İ		İ	İ
Cress	6e	İ	j i		İ	İ
368E				1.0		
Mahtomedi	 7s	1.0	1.6	1.8	1.4	1.4
Cress	7 5 7e	I I	 		1	
Cless	, ,e		 			!
380B	İ	1.4	2.2	2.4	1.8	2.0
Cress	3s					
Rosholt	2s					
380C	 	1.2	2.0	2.2	1.6	1.8
Cress	4e		ı i			
Rosholt	3e	!				!
380D	 	1.2	 1.8	2.0	1.4	1.6
Cress	6e					
Rosholt	4e	İ			İ	İ
383B Mahtomedi	4s	1.0	1.6	1.8	1.4	1.4
Mancomedi	 					
383C	6s	1.0	1.6	1.8	1.4	1.4
Mahtomedi		!				ļ
383D	 7s	1.0	 			
Mahtomedi						
392C						
Rockmarsh	 7s					
Dairyland	7s 7s	I I	 		1	
Makwa	6w		 			
		İ	į į		İ	İ
396B		1.0	1.6	1.8	1.4	1.4
Friendship	4s					
WurtsmithGrayling	4s 4s		 		1	l I
GrayIIIIg	<u>1</u> 5		 			
397A	4w	1.0	1.6	1.8	1.4	1.4
Perchlake						
399B	 4s	1.0	 1.6	1.8	1.4	1.4
Grayling		İ			i	İ
399C	 6s	1.0	 1.6	1.8	1.4	1.4
Grayling	os 	1.0	1.6	1.8	1.4	1.4
oru, ring						
399D	7s	1.0	i i		i	i
Grayling						
406A	 7w		 			
Loxley	· ••	İ				
		!	ļ			
407A	7					
Seelyeville	7w		 		1	
Markey	7w	1			1	

Table 7b.--Land Capability and Yields per Acre of Crops and Pasture--Continued

		Orchard-								
Map symbol	Land	Bluegrass-	Orchard-	grass-red	Red clover	Timothy-				
and soil name	capability	white clover		clover	hay	alsike				
		Tons	Tons	Tons	Tons	Tons				
		İ	İ		i	<u> </u>				
410A		i			i	i				
Seelyeville	7w	j			İ	İ				
Cathro	7w									
419A										
Seelyeville	7w	!			!					
Cathro	7w									
Markey	7w									
421A		 	l I		1	 				
Dora	7w	 	 			 				
Markey	7 w	 	 			 				
Seelyeville	7 w	! 	 			! 				
2		<u> </u>			i					
422A						i				
Seelyeville	7w	İ	İ		İ	İ				
Cathro	7w	ĺ			ĺ	İ				
Rondeau	7w									
426B		1.0	1.6	1.8	1.4	1.4				
Emmert	4s	!			!					
Mahtomedi	4s									
Menahga	4s									
426C		1.0	1.6	1.8	1.4	 1.4				
Emmert	6s	1 1.0	1.0	1.0	1.4	1.4				
Mahtomedi	6s	 	 			 				
Menahga	6s	 	 			 				
	02	i I			i	! 				
426D		1.0				i				
Emmert	7s	İ			i	<u> </u>				
Mahtomedi	7s	j			İ	İ				
Menahga	7s									
430A	4w	1.2	2.0	2.2	1.6	1.8				
Freya					!					
4205				1.0						
439B	4-	1.0	1.6	1.8	1.4	1.4				
Menahga	4s 4s	 	l I		1	l I				
menanga	48	 	 			 				
439C		1.0	1.6	1.8	1.4	1.4				
Graycalm	6s	i								
Menahga	6s	İ			i					
_		j			İ	İ				
439D		1.0								
Graycalm	7s									
Menahga	7s									
442C	_	1.8	2.6	2.8	2.2	2.4				
Haugen	6s									
Greenwood	7w	1	 		 	 				
443D		1.6	2.4	2.6	2.0	 2.2				
Amery	7s	1	2.1	2.0	2.0	2.2				
Greenwood	7 w					! 				
	,				i					
459A										
Loxley	7w	İ			i	İ				
Daisybay	7w		l i							
Dawson	7w		l		1					
			l i		1					

Table 7b.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and soil name	Land capability	·	 Orchard- grass-alsike	Orchard- grass-red clover	Red clover	Timothy- alsike
		Tons	Tons	Tons	Tons	Tons
461A Bowstring	7w	 	 			
465A		1.0	1.6	1.8	1.4	1.4
Newson	6w 4w					
 469E			 			
Bigisland Milaca	7s 7s					
milaca	78					
171B						
Dairyland Emmert	7s 7s					
Dairyland	7s		İ			
Emmert	7s					
172A						
Rockmarsh	7s 7s		 			
 		j 	į		į	
Dairyland	7s		 			
Skog	7s				į	
Greenwood	7w	!				
Beseman	7w		 			
85C	_					
Lupton Tawas	7w 7w		 			
j						
195B Karlsborg	3s	1.0	1.6	1.8	1.4	1.4
Grettum	4s					
Perida	4s				į	
 		1.0	 1.6	1.8	1.4	1.4
Karlsborg	4s					
Grettum	6s					
Perida	6s					
95D		1.0	1.6	1.8	1.4	1.4
Karlsborg Grettum	6s 7s					
Perida	7s 7s					
 	3s	1.0	 1.8	2.0	1.4	1.6
Karlsborg	35		1.0	2.0		1.0
 	4s	1.0	 1.6	1.8	1.4	1.4
Karlsborg	-					
 	6s	1.0	 1.6	1.8	1.4	1.4
Karlsborg			ļ			
 	4w	1.2	2.0	2.2	1.6	1.8
Meenon						

Table 7b.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and soil name	Land capability	 Bluegrass- white clover	 Orchard- grass-alsike	Orchard- grass-red clover	 Red clover hay	Timothy- alsike
and soll hame	capability	Tons	Tons	Tons	Tons	Tons
i			10115	10115	10115	
521A Dody	6w	 	 		 	
523A Nokasippi	6w	 	 			
529B Perida	4s	1.0	1.6	1.8	1.4	1.4
531A Stengel	4w	1.0	1.8	2.0	1.4	1.6
542B		2.0	 2.8	3.0	2.4	2.6
Haugen, very stony	4s	1				
Haugen	2e	İ	j i		İ	
542C		1.8	 2.6	2.8	2.2	2.4
Haugen, very stony	6s	1.8	2.6 	2.8	2.2	4.4
Haugen	3e	 	 			
544F		1.0	i i			
Menahga	7s					
Mahtomedi	7s					
553B Branstad	2e	2.6	 3.4 	3.6	3.0	3.2
553C Branstad	3e	2.4	 3.2	3.4	2.8	3.0
Branstad		 	 		1	
553D Branstad	4e	2.2	3.0	3.2	2.6	2.8
555A Fordum	6w	1.0	 			
557B Shawano	4s	1.0	 1.6 	1.8	1.4	1.4
557C Shawano	6s	1.0	 1.6 	1.8	1.4	1.4
557D Shawano	7s	 	 		 	
586A Chelmo	6w	 	 		 	
600A		 	 			
Haplosaprists	6w	į	į i		į	
Psammaquents	6w	İ	į			
615B Cress	3s	 1.2 	 2.0 	2.2	 1.6 	 1.8
615C Cress	4e	 1.0 	 1.8 	2.0	 1.4 	 1.6
615D Cress	6e	 1.0 	 1.6 	1.8	1.4	1.4

Table 7b.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol	Land	 Bluegrass-	Orchard-	Orchard- grass-red	 Red clover	Timothy-
and soil name	capability	white clover	grass-alsike	clover Tons	hay Tons	alsike Tons
i		10115		10115		10115
620C		1.2	2.0	2.2	1.6	1.8
Lundeen	6s					
Haustrup	6s					
Rock outcrop	8					
 621 A	6w		 			
Bjorkland	• • •					
į		İ	j		į i	
623A	7w	1.2				
Capitola						
624A	2w	2.4	3.2	3.4	2.8	3.0
Ossmer						
į		İ	İ		į	
631A	6w					
Giese			 			
632A	1	2.6	3.4	3.6	3.0	3.2
Aftad						
ļ.		!			[
632B	2e	2.4	3.2	3.4	2.8	3.0
Aftad			 			
632C	3e	2.2	3.0	3.2	2.6	2.8
Aftad		İ	İ			
624.0						
634C	7 -					
Drylanding	7s	1	 			
Beartree	7w					
Rock outcrop	8		 			
635C						
Drylanding	7s					
Beartree	7w					
Rock outcrop	8	[
 648B	2e	2.6	3.4	3.6	3.0	3.2
Sconsin	20		3.1	3.0	3.0	3.2
į		İ	j		j	
669D		1.0	1.6	1.8	1.4	1.4
Fremstadt	6e					
Pomroy	6e					
 671B		1.2	2.0	2.2	1.6	1.8
Spoonerhill, stony	3s					
Spoonerhill	3s	İ				
		ļ			[[
706A	4					
Winterfield	4w					
Totagatic	7w	I	 			
 	4s	2.0	2.8	3.0	2.4	2.6
Mora	-	i				•
<u>_</u>		!	ļ		ļ	
717B	4s	2.2	3.0	3.2	2.6	2.8
Milaca			 			
 717C	6s	2.0	 2.8	3.0	2.4	2.6
Milaca	- -					0
i		İ	j		j	

Table 7b.--Land Capability and Yields per Acre of Crops and Pasture--Continued

Map symbol and soil name	Land	 Bluegrass- white clover	Orchard-	Orchard- grass-red clover	 Red clover hay	Timothy-
and soil name	capability	Tons	Tons	Tons	Tons	Tons
720F Haustrup Lundeen	6s	 	 		 	
Rock outcrop	8	į				
726B Sissabagama	4s	1.0	1.8	2.0	 1.4 	1.6
742B Milaca	4s	1.8	 2.6 	2.8	2.2	2.4
742C Milaca	6s	 1.6 	 2.4 	2.6	 2.0 	 2.2
742D Milaca	6s	1.4	2.2	2.4	1.8	2.0
755A Moppet Fordum		1.6			 	
771A Lenroot	4s	1.0	1.6	1.8	1.4	1.4
812B Mora	4s	1.6	2.4	2.6	2.0	 2.2
825A Meehan	4w	1.0	1.6	1.8	1.4	1.4
896A Wurtsmith	4s	1.0	1.6	1.8	1.4	1.4
980A Soderbeck	7s	 	 		 	
1070C Fremstadt Cress	4e 4e	1.0	1.6	1.8	1.4	1.4
1070D Fremstadt Cress	6e 6e	1.0	1.6 	1.8	 1.4 	 1.4
1080B Spoonerhill Spoonerhill, stony Cress		1.0	1.8	2.0	1.4	1.6
2002. Udorthents, earthen dams		 	 		 	
2015. Pits		 	 		 	
2050. Landfill		 	 		 	
3011ABarronett	6w	 1.4 	 		 	

Table 7b.--Land Capability and Yields per Acre of Crops and Pasture--Continued

		ļ				
Map symbol	Land	Bluegrass-	Orchard-	grass-red	Red clover	Timothy-
and soil name	capability	Tons	grass-alsike	clover	hay Tons	alsike Tons
i		l	10115	10115	l	10115
082E		1.4	2.2	2.4	1.8	2.0
Braham	6e	İ	j j		İ	
Shawano	7s					
3114A	0					
Saprists Aquents	8w 8w	I I	 		1	
Aquents	8w	1	 		1	
inquepes	0#		 			
3125A	4w	1.0	1.6	1.8	1.4	1.4
Meehan		İ	į		İ	
I						
3126A	4s	1.0	1.8	2.0	1.4	1.6
Wurtsmith						
 		1.8	 2.6	2.8	2.2	2.4
Glendenning, very stony	4s	1.8	2.0 	2.8	4.4	4.4
Glendenning. very stony	4s 2w				1	!
	- "	i				!
3336A	6w	2.0				
Fenander		İ	į į		İ	İ
ļ		1			[
3403A						
Loxley	7w					
Beseman Dawson	7w					
Dawson	7w	I I	 		1	
 8429B	3s	1.4		2.4	1.8	2.0
Lara	32					
i		İ	İ		İ	
3429C	4e	1.2	2.0	2.2	1.6	1.8
Lara						
3446A	6w					
Newson			 		1	
 	4s	1.0	 1.6	1.8	1.4	1.4
Grettum	15		1.0	1.0		
		İ	İ			
3448C	6s	1.0	1.6	1.8	1.4	1.4
Grettum						
I						
3510B		1.0	1.8	2.0	1.4	1.6
Pomroy	3e					
Fremstadt, stony	3s					
Fremstadt	3s	I	 		1	
 3510C		1.0	 1.6	1.8	1.4	1.4
Pomroy	4e			1.5		
Fremstadt	4s	İ			İ	
Fremstadt, stony	4s	İ	į į		İ	
I		ļ.	ļ İ		[
3511A	2w	1.0	1.8	2.0	1.4	1.6
Bushville						
 	2~			2.2	1 1 6	
3516A Slimlake	3s	1.2	2.0	2.2	1.6	1.8
DIIMIANG			ı 			l
8625A	4w	1.0	1.8	2.0	1.4	1.6
Lino						=,,
i		İ	į		İ	
8626A	4s	1.0	1.6	1.8	1.4	1.4
Crex		1	1		i .	ı

Table 7b.--Land Capability and Yields per Acre of Crops and Pasture--Continued

			Orchard-		
Land	Bluegrass-	Orchard-	grass-red	Red clover	Timothy-
capability	white clover	grass-alsike	clover	hay	alsike
	Tons	Tons	Tons	Tons	Tons
4s	1.0	1.6	1.8	1.4	1.4
4s	1.0	1.6	1.8	1.4	1.4
6s	1.0	1.6	1.8	1.4	1.4
	į	į į		į	
	j	j j		į	
	capability 4s 4s	capability white clover Tons 4s 1.0 4s 1.0	capability white clover grass-alsike Tons Tons 4s 1.0 1.6 4s 1.0 1.6	Land Bluegrass- Orchard- grass-red capability white clover grass-alsike clover Tons Tons Tons 4s 1.0 1.6 1.8 4s 1.0 1.6 1.8	Land Bluegrass- Orchard- grass-red Red clover capability white clover grass-alsike clover hay Tons Tons Tons Tons 4s 1.0 1.6 1.8 1.4 4s 1.0 1.6 1.8 1.4

Table 8.--Prime Farmland

(Only the soils considered prime farmland are listed. Urban or built-up areas of the soils listed are not considered prime farmland)

Map symbol	Map unit name
22A	Comstock silt loam, 0 to 3 percent slopes
27A	Scott Lake sandy loam, 0 to 3 percent slopes
28B	Haugen-Rosholt complex, 2 to 6 percent slopes, very stony
38A	Rosholt sandy loam, 0 to 2 percent slopes
38B	Rosholt sandy loam, 2 to 6 percent slopes
43B	Antigo silt loam, 1 to 6 percent slopes
63A	Crystal Lake silt loam, 0 to 2 percent slopes
63B	Crystal Lake silt loam, 2 to 6 percent slopes
82B	Cutaway-Branstad complex, 1 to 6 percent slopes
83A	Smestad loamy fine sand, 0 to 3 percent slopes
85B	Taylor loam, 2 to 6 percent slopes
86A	Indus-Alango complex, 0 to 2 percent slopes
89A	Wildwood muck, 0 to 1 percent slopes
151A	Bluffton loam, 0 to 2 percent slopes
152A	Alstad loam, 0 to 3 percent slopes
156B	Magnor, very stony-Magnor complex, 0 to 4 percent slopes
157B	Freeon, very stony-Freeon complex, 2 to 6 percent slopes
160A	Oesterle sandy loam, 0 to 2 percent slopes
185B	Tradelake-Taylor complex, 1 to 6 percent slopes
189A	Siren loam, 0 to 3 percent slopes
193A	Minocqua muck, 0 to 2 percent slopes
337A	Plover fine sandy loam, 0 to 3 percent slopes
542B	Haugen, very stony-Haugen complex, 2 to 6 percent slopes
553B	Branstad fine sandy loam, 2 to 6 percent slopes
621A	Bjorkland peat, 0 to 2 percent slopes
623A	Capitola muck, 0 to 2 percent slopes, very stony
624A	Ossmer silt loam, 0 to 3 percent slopes
631A	Giese muck, 0 to 1 percent slopes, very stony
632A	Aftad fine sandy loam, 0 to 2 percent slopes
632B	Aftad fine sandy loam, 2 to 6 percent slopes
648B	Sconsin silt loam, 1 to 6 percent slopes
715A	Mora silt loam, 0 to 3 percent slopes, very stony
717B	Milaca silt loam, 3 to 6 percent slopes, very stony
742B	Milaca sandy loam, 2 to 6 percent slopes, very stony
812B	Mora sandy loam, 0 to 4 percent slopes, very stony
3011A	Barronett silt loam, 0 to 2 percent slopes
3312B	Glendenning, very stony-Glendenning complex, 0 to 4 percent slopes
3336A	Fenander fine sandy loam, 0 to 2 percent slopes

Table 9.--Conservation Tree/Shrub Suitability Groups

(Absence of an entry indicates that a conservation tree/shrub suitability group is not assigned)

Map symbol and soil name	Conservation tree/shrub suitability group
i	
3A: Totagatic	10
Bowstring	10
Ausable	10
12A:	10
22A:	10
27A: 	6GA
28B: Haugen, very stony	2A
Haugen	2A
Rosholt, very stony	6GA
Rosholt	6GA
28C: Haugen, very stony	2A
Haugen	2A
Rosholt, very stony	6GA
Rosholt	6GA
38A:	6 GA
38B: Rosholt	6GA
Rosholt	6GA
Rosholt	6GA
42D: Amery	4A
43B: Antigo	6GA
43C: Antigo	6GA
63A: Crystal Lake	2A

Table 9.--Conservation Tree/Shrub Suitability Groups--Continued

Map symbol	Conservation
and	tree/shrub
soil name	suitability group
63B:	[
Crystal Lake	2A
-	
63C:	
Crystal Lake	2A
64A:	
Totagatic	10
Winterfield	10
69C:	
Keweenaw	 4A
Sayner	7 A
Wiles	73
Vilas	7A
69E:	
Keweenaw	4A
Sayner	7A
Vilas	 7A
	·
82B:	
Cutaway	1
Branstad	 1
Drangtau	·
82C:	
Cutaway	1
Branstad	 1
DI alibiad	ı
83A:	
Smestad	2н
OFD.	
85B: Taylor	 1
-4/101	·
85C:	
Taylor	1
963.	
86A: Indus	 10
Alango	10
89A: Wildwood	 10
HITUWOOU	±0
96B:	
Karlsborg	2 A
0.00	
96C: Karlsborg	 2A
varianora	4A
96D:	
Karlsborg	2A
100D.	
100B: Menahga	 7A
	•

Table 9.--Conservation Tree/Shrub Suitability Groups--Continued

I	
Map symbol	Conservation
and	tree/shrub
soil name	suitability group
100C:	
Menahga	7A
100D:	
Menahga	7A
120B:	7 A
Kost	/A
127D:	
Amery	4A
I	
Rosholt	6GA
1278	
127E: Amery	4A
	*A
Rosholt	6GA
į	
151A:	
Bluffton	10
152A:	
Alstad	10
154E:	
Cushing	2
156B:	
Magnor, very stony	10
Magnor	10
157B:	2A
Freeon, very stony	ZA
Freeon	2A
ĺ	
157C:	
Freeon, very stony	2A
 Freeon	2A
	
160A:	
Oesterle	10
165B:	
Elderon	6
	- -
185B:	
Tradelake	1
Taulor	1
Taylor	1
185C:	
Tradelake	1
!	
Taylor	1
185D:	
Tradelake	1
į	
Taylor	1

Table 9.--Conservation Tree/Shrub Suitability Groups--Continued

Map symbol	Conservation
and	tree/shrub
soil name	suitability group
185E:	
Tradelake	1
Tradetake	<u> </u>
Taylor	1
layioi	
189A:	
Siren	10
Silen	10
193A:	
Minocqua	10
mmocquu	1
337A:	
Plover	10
368B:	
Mahtomedi	7A
i	
Cress	6GA
İ	
368C:	
Mahtomedi	7A
Cress	6GA
368D:	
Mahtomedi	7A
Cress	6GA
368E:	
Mahtomedi	7A
Cress	6GA
380B:	
Cress	6GA
Rosholt	GGA
ROSHOTC	OGA
380C:	
Cress	6GA
01022	
Rosholt	6GA
380D:	
Cress	6GA
İ	
Rosholt	6GA
383B:	
Mahtomedi	7A
383C:	
Mahtomedi	7A
383D:	
Mahtomedi	7A
392C:	
Rockmarsh	10
Dodawal and	
Dairyland	2
Makwa	10
maxwa	10
l l	I

Table 9.--Conservation Tree/Shrub Suitability Groups--Continued

Map symbol and	Conservation tree/shrub
soil name	suitability group
396B: Friendship	1A
Wurtsmith	2A
Grayling	7A
397A: Perchlake	10
399B: Grayling	7A
399C: Grayling	7A
399D: Grayling	7A
406A: Loxley	10
407A: Seelyeville	10
Markey	10
410A: Seelyeville	10
Cathro	10
419A:	
Seelyeville	10
Cathro	10
Markey	10
421A: Dora	10
Markey	10
Seelyeville	10
422A: Seelyeville	10
Cathro	 10
Rondeau	10
426B: Emmert	10
Mahtomedi	7A
Menahga	7A

Table 9.--Conservation Tree/Shrub Suitability Groups--Continued

Map symbol	Conservation
and	tree/shrub
soil name	suitability group
426C:	
Emmert	10
i	
Mahtomedi	7A
I	
Menahga	7A
10.55	
426D: Emmert	10
Enumer C	10
Mahtomedi	7A
į	
Menahga	7A
I	
430A:	
Freya	10
439B:	
Graycalm	7 A
Menahga	7A
I	
439C:	
Graycalm	7A
 Menahga	7 A
menanga	/A
439D:	
Graycalm	7A
I	
Menahga	7 A
4420	
442C: Haugen	2A
naugen	28
Greenwood	10
İ	
443D:	
Amery	4A
Greenwood	10
Greenwood	10
459A:	
Loxley	10
į	
Daisybay	10
Dawson	10
461A:	
Bowstring	10
	-
465A:	
Newson	10
Meehan	10
469E:	
Bigisland	6
j	, and the second
Milaca	2
İ	

Table 9.--Conservation Tree/Shrub Suitability Groups--Continued

Map symbol and	Conservation tree/shrub
soil name	suitability group
471B:	2
Emmert	10
471C: Dairyland	2
Emmert	10
472A:	10
Clemens	10
473A:	2
Skog	2
484A: Greenwood	10
Beseman	10
485C: Lupton	10
Tawas	10
495B:	2A
Grettum	1A
Perida	1A
495C: Karlsborg	2A
Grettum	1A
Perida 	1A
495D:	2 A
Grettum	1A
Perida	1A
496B: Karlsborg	2A
496C:	2A
496D: Karlsborg	2A
497A:	10
1	

Table 9.--Conservation Tree/Shrub Suitability Groups--Continued

Map symbol	Conservation
and	tree/shrub
soil name	suitability group
521A: Dody	10
523A: Nokasippi	10
529B: Perida	2A
531A: Stengel	10
542B: Haugen, very stony	2A
Haugen	2A
542C: Haugen, very stony	2 A
Haugen	2A
544F: Menahga	7 A
Mahtomedi	7A
553B: Branstad	1
553C: Branstad	1
553D: Branstad	1
555A: Fordum	10
557B: Shawano	7A
557C: Shawano	7A
557D: Shawano	7A
586A: Chelmo	10
600A: Haplosaprists	10
Psammaquents	10
615B: Cress	6GA
615C: Cress	6GA

Table 9.--Conservation Tree/Shrub Suitability Groups--Continued

Map symbol	Conservation
and	tree/shrub
soil name	suitability group
615D:	
Cress	6GA
5005	
620C:	
Lundeen	5A
Haustrup	10
nauscrup	10
Rock outcrop.	
621A:	
Bjorkland	10
623A:	
Capitola	10
624A:	
Ossmer	10
631A:	10
Giese	10
632A:	
Aftad	2A
632B:	
Aftad	2A
į	
632C:	
Aftad	2A
634C:	
Drylanding	10
Beartree	10
Rock outcrop.	
ROCK Odderop.	
635C:	
Drylanding	10
Beartree	10
į	
Rock outcrop.	
648B:	
Sconsin	2A
669D:	
Fremstadt, stony	4A
riemstadt, stony	70
Pomroy	2A
	
671B:	
Spoonerhill, stony	2A
į	
Spoonerhill	2A
706A:	
Winterfield	10
makanakin .	10
Totagatic	10
I	

Table 9.--Conservation Tree/Shrub Suitability Groups--Continued

Map symbol	Conservation
and	tree/shrub
soil name	suitability group
715A:	
Mora	10
717B:	
Milaca	2
717C:	
Milaca	2
720F:	
Haustrup	10
Lundeen	5A
Rock outcrop.	
726B:	
Sissabagama	2A
742B:	
Milaca	2
742C:	
Milaca	2
742D:	
Milaca	2
755A:	
Moppet	2A
7 J	10
Fordum	10
771A:	
Lenroot	 2A
remrooc	2A
812B:	
Mora	10
MOIA	10
825A:	
Meehan	10
meenan	1
896A:	
Wurtsmith	 2A
Wai Charles	48
980A:	
Soderbeck	10
bodelbeek	1
1070C:	[
Fremstadt	 4A
	I ♣♣
Cress	 6GA
1070D:	[
Fremstadt	 4A
Cress	 6GA
	I

Table 9.--Conservation Tree/Shrub Suitability Groups--Continued

Map symbol and	Conservation tree/shrub
soil name	suitability group
1080B: Spoonerhill	2 A
Spoonerhill, stony	2 A
Cress	6GA
2002. Udorthents, earthen dams	
2015. Pits	
2050. Landfill	
3011A: Barronett	10
3082E: Braham	4
Shawano	7A
3114A: Saprists	10
Aquents	10
Aquepts	10
3125A: Meehan	10
3126A: Wurtsmith	2A
3312B: Glendenning, very stony	10
Glendenning	10
3336A: Fenander	10
3403A: Loxley	10
Beseman	10
Dawson	10
3429B: Lara	2
3429C: Lara	2
3446A: Newson	10

Table 9.--Conservation Tree/Shrub Suitability Groups--Continued

Mara granda al	 Conservation
Map symbol and	tree/shrub
soil name	suitability group
SOII Hame	suitability group
3448B:	
Grettum	 1A
GIECCUM	
3448C:	
Grettum	1A
	
3510B:	
Pomroy	2A
_	
Fremstadt	4A
Fremstadt, stony	4A
3510C:	
Pomroy	2A
Fremstadt	4A
Fremstadt, stony	4A
3511A:	
Bushville	10
3516A:	
Slimlake	6GA
3625A:	
Lino	10
Lino	10
3626A:	
Crex	 7A
Clex	/A
3629B:	
Perida	2A
	
3636B:	
Plainbo	6 A
3636C:	
Plainbo	6A
M-W.	
Miscellaneous water	
W.	
Water	
	<u> </u>

Table 10.--Forest Land Harvest Equipment Considerations

(See text for a description of the considerations listed in this table)

Map symbol and	Forest land harvest equipment considerations
and soil name	CONSIDERATIONS
3A:	
Totagatic	Flooding Wetness
	Susceptible to rutting and wheel slippage
	Poor traction (loose sandy material)
Bowstring	Flooding
BOWSCI ING	Wetness
	Susceptible to rutting and wheel slippage
Ausable	Flooding
Ausable	Wetness
	Susceptible to rutting and wheel slippage
	Poor traction (loose sandy material)
12A:	
Makwa	Flooding
	Wetness
	Susceptible to rutting and wheel slippage
22A:	
Comstock	Wetness
	Susceptible to rutting and wheel slippage
27A:	
Scott Lake	No major considerations
28B:	
Haugen, very stony	Wetness
Houses	Wetness
Haugen	wethess
Rosholt, very stony	No major considerations
Rosholt	No major gongidorations
ROSHOTC	No major considerations
28C:	
Haugen, very stony	Wetness
Haugen	Wetness
Rosholt, very stony	No major considerations
Rosholt	No major considerations
38A: Rosholt	No major considerations
Nobilott	
38B:	
Rosholt	No major considerations
38C:	
Rosholt	No major considerations
38D:	
Rosholt	Slope
42D: Amery	Slope
1	<u>-</u> -

Table 10.--Forest Land Harvest Equipment Considerations--Continued

Map symbol	Forest land harvest equipment
and	considerations
soil name	
43B: Antigo	No major considerations
43C: Antigo	No major considerations
63A: Crystal Lake	Wetness Susceptible to rutting and wheel slippage
63B: Crystal Lake	Wetness Susceptible to rutting and wheel slippage
63C: Crystal Lake	Wetness Susceptible to rutting and wheel slippage
64A: Totagatic	Flooding Wetness Susceptible to rutting and wheel slippage Poor traction (loose sandy material)
Winterfield	Flooding Wetness Poor traction (loose sandy material)
600	
69C: Keweenaw	Poor traction (loose sandy material)
Sayner	Poor traction (loose sandy material)
Vilas	Poor traction (loose sandy material)
69E: Keweenaw	Slope Poor traction (loose sandy material)
Sayner	Slope Poor traction (loose sandy material)
Vilas	Slope Poor traction (loose sandy material)
82B:	Poor traction (loose sandy material)
Branstad	Susceptible to rutting and wheel slippage
82C: Cutaway	Poor traction (loose sandy material)
Branstad	Susceptible to rutting and wheel slippage
83A: Smestad	Wetness Poor traction (loose sandy material)
85B: Taylor	Wetness Susceptible to rutting and wheel slippage

Table 10.--Forest Land Harvest Equipment Considerations--Continued

Map symbol	Forest land harvest equipment
and	considerations
soil name	
85C:	
Taylor	
	Susceptible to rutting and wheel slippage
86A:	
Indus	Wetness
Indub	Susceptible to rutting and wheel slippage
	sassepoints to rationing and missi brippage
Alango	Wetness
	Susceptible to rutting and wheel slippage
89A:	
Wildwood	
	Susceptible to rutting and wheel slippage
96B:	
Karlsborg	Wetness
Railbbolg	Poor traction (loose sandy material)
96C:	
Karlsborg	Wetness
	Poor traction (loose sandy material)
96D:	
Karlsborg	-
	Wetness Poor traction (loose sandy material)
	POOT traction (100se sandy material)
100B:	
	Poor traction (loose sandy material)
100C:	
Menahga	Poor traction (loose sandy material)
1000	
100D: Menahga	Clana
menanga	Poor traction (loose sandy material)
120B:	
Kost	Poor traction (loose sandy material)
127D:	
Amery	Slope
Deck 14	g1
Rosholt	Slope
127E:	
Amery	Slope
•	
Rosholt	Slope
151A:	
Bluffton	Wetness
	Susceptible to rutting and wheel slippage
152A:	
Alstad	Wetness
	Susceptible to rutting and wheel slippage
154E:	
Cushing	Slope
	Susceptible to rutting and wheel slippage

Table 10.--Forest Land Harvest Equipment Considerations--Continued

Map symbol	Forest land harvest equipment
and	considerations
soil name	
156B:	
Magnor, very stony	Wotpogg
magnor, very stony	wethess
Magnor	Wetness
157B:	
Freeon, very stony	Wetness
Freeon	Wetness
157C:	
Freeon, very stony	Wetness
Freeon	Wetness
160A:	
Oesterle	Wetness
Oestelle	wethess
165B:	
	Wa madan namaddanahdana
Elderon	NO major considerations
1055	
185B:	
Tradelake	Wetness
Taylor	
	Susceptible to rutting and wheel slippage
185C:	
Tradelake	Wetness
Taylor	Wetness
	Susceptible to rutting and wheel slippage
185D:	
Tradelake	Slope
	Wetness
Taylor	Slope
- i	Wetness
i	Susceptible to rutting and wheel slippage
185E:	
Tradelake	Slope
Traderane	Wetness
	"""
Taylor	Slone
Taylor	_
	Wetness
	Susceptible to rutting and wheel slippage
189A:	
Siren	Wetness
	Susceptible to rutting and wheel slippage
193A:	
Minocqua	Wetness
	Susceptible to rutting and wheel slippage
İ	
337A:	
Plover	Wetness
i	
368B:	
	Poor traction (loose sandy material)
Cress	No major considerations
	I .

Table 10.--Forest Land Harvest Equipment Considerations--Continued

Man armhal	Donat land barrent aminus
Map symbol and soil name	Forest land harvest equipment considerations
368C:	
Mahtomedi	Poor traction (loose sandy material)
Cress	No major considerations
368D:	
Mahtomedi	Slope Poor traction (loose sandy material)
Cress	Slope
368E:	
Mahtomedi	Slope Poor traction (loose sandy material)
Cress	Slope
380B:	
Cress	No major considerations
Rosholt	No major considerations
380C:	
Cress	No major considerations
Rosholt	No major considerations
380D:	
Cress	Slope
Rosholt	Slope
383B: Mahtomedi	Poor traction (loose sandy material)
383C: Mahtomedi	Poor traction (loose sandy material)
383D:	
Mahtomedi	Slope Poor traction (loose sandy material)
392C:	
Rockmarsh	Slope Wetness Susceptible to rutting and wheel slippage
Dairyland	Slope Wetness
Makwa	Wetness Susceptible to rutting and wheel slippage
396B:	
	Poor traction (loose sandy material)
Wurtsmith	Poor traction (loose sandy material)
Grayling	Poor traction (loose sandy material)
397A:	
Perchlake	Wetness Poor traction (loose sandy material)
	ı

Table 10.--Forest Land Harvest Equipment Considerations--Continued

Map symbol	Forest land harvest equipment
and	considerations
soil name	
399B:	
	Poor traction (loose sandy material)
	Tool oldolon (loope bana, macollal,
399C:	
Grayling	Poor traction (loose sandy material)
399D:	
Grayling	-
	Poor traction (loose sandy material)
406A:	
Loxley	Wetness
•	Susceptible to rutting and wheel slippage
407A:	
Seelyeville	
	Susceptible to rutting and wheel slippage
Markey	Wetness
markey	Susceptible to rutting and wheel slippage
	busceptible to futting and wheel slippage
410A:	
Seelyeville	Wetness
İ	Susceptible to rutting and wheel slippage
Cathro	Wetness
	Susceptible to rutting and wheel slippage
419A:	
Seelyeville	Wetness
	Susceptible to rutting and wheel slippage
Cathro	Wetness
	Susceptible to rutting and wheel slippage
Wantana	Walterson
Markey	Susceptible to rutting and wheel slippage
	busceptible to futting and wheel slippage
421A:	
Dora	Wetness
	Susceptible to rutting and wheel slippage
Markey	Wetness
	Susceptible to rutting and wheel slippage
Seelyeville	Wetness
beeryeville	Susceptible to rutting and wheel slippage
422A:	
Seelyeville	Wetness
	Susceptible to rutting and wheel slippage
Cathra	Webness
Cathro	Wetness Susceptible to rutting and wheel slippage
· ·	pascepointe to intering and wheel slippage
Rondeau	Wetness
j	Susceptible to rutting and wheel slippage
İ	
426B:	
Emmert	Poor traction (loose sandy material)
Mahtamadi	Door traction (3
mantomed1	Poor traction (loose sandy material)
Menahga	Poor traction (loose sandy material)

Table 10.--Forest Land Harvest Equipment Considerations--Continued

Map symbol	Forest land harvest equipment
and soil name	considerations
426C: Emmert	 Poor traction (loose sandy material)
Mahtomedi	 Poor traction (loose sandy material)
Menahga	Poor traction (loose sandy material)
426D: Emmert	 Slope Poor traction (loose sandy material)
Mahtomedi	 Slope Poor traction (loose sandy material)
Menahga	 Slope Poor traction (loose sandy material)
430A: Freya	 Wetness Poor traction (loose sandy material)
439B: Graycalm	 Poor traction (loose sandy material)
Menahga	Poor traction (loose sandy material)
439C: Graycalm	 Poor traction (loose sandy material)
Menahga	Poor traction (loose sandy material)
439D: Graycalm	 Slope Poor traction (loose sandy material)
Menahga	Slope Poor traction (loose sandy material)
442C: Haugen	 Wetness
Greenwood	Wetness Susceptible to rutting and wheel slippage
443D: Amery	 Slope
Greenwood	Wetness Susceptible to rutting and wheel slippage
459A: Loxley	
Daisybay	 Wetness Susceptible to rutting and wheel slippage
Dawson	 Wetness Susceptible to rutting and wheel slippage
461A: Bowstring	 Flooding Wetness Susceptible to rutting and wheel slippage

Table 10.--Forest Land Harvest Equipment Considerations--Continued

Map symbol	Forest land harvest equipment
and soil name	considerations
465A:	Waterana
Newson	Wetness Susceptible to rutting and wheel slippage
	Poor traction (loose sandy material)
•	
Meehan	Wetness Poor traction (loose sandy material)
	root craction (roote bandy material)
469E:	
Bigisland	Slope Susceptible to rutting and wheel slippage
	busceptible to facting and wheel slippage
Milaca	Slope
	Wetness
471B:	
Dairyland	Wetness
Town a sub	Wa madan namadanakiana
Emmert	No major considerations
471C:	
Dairyland	Wetness
Emmert	Poor traction (loose sandy material)
472A:	71 1/
Rockmarsh	F100ding Wetness
	Susceptible to rutting and wheel slippage
G1	71 1/
Clemens	Flooding Wetness
	Susceptible to rutting and wheel slippage
473A:	
Dairyland	Wetness
Skog	No major considerations
484A:	
Greenwood	Wetness
	Susceptible to rutting and wheel slippage
Beseman	Wetness
	Susceptible to rutting and wheel slippage
485C:	
Lupton	Wetness
-	Susceptible to rutting and wheel slippage
	w.h
Tawas	wetness Susceptible to rutting and wheel slippage
	and the state of t
495B:	Wetness
Karlsborg	Wetness Poor traction (loose sandy material)
Grettum	Poor traction (loose sandy material)
Perida	Wetness
	Poor traction (loose sandy material)

Table 10.--Forest Land Harvest Equipment Considerations--Continued

Map symbol	Forest land harvest equipment
and	considerations
soil name	
495C:	
Karlsborg	Wetness
-	Poor traction (loose sandy material)
	•
Grettum	Poor traction (loose sandy material)
01000am	
Perida	Wetness
101144	Poor traction (loose sandy material)
495D:	
Karlsborg	 Slone
Railsborg	Wetness
	! -
	Poor traction (loose sandy material)
G	
Grettum	_
	Poor traction (loose sandy material)
Perida	_
	Wetness
	Poor traction (loose sandy material)
496B:	
Karlsborg	Wetness
	Poor traction (loose sandy material)
496C:	
Karlsborg	Wetness
	Poor traction (loose sandy material)
496D:	
Karlsborg	Slope
	Wetness
	Poor traction (loose sandy material)
497A:	
Meenon	Wetness
	Poor traction (loose sandy material)
521A:	
Dody	Wetness
	Susceptible to rutting and wheel slippage
	Poor traction (loose sandy material)
523A:	
Nokasippi	Wetness
	Susceptible to rutting and wheel slippage
	Poor traction (loose sandy material)
529B:	
Perida	Wetness
	Poor traction (loose sandy material)
531A:	
Stengel	Wetness
	Poor traction (loose sandy material)
542B:	
Haugen, very stony	Wetness
Haugen	Wetness

Table 10.--Forest Land Harvest Equipment Considerations--Continued

Map symbol	Forest land harvest equipment
and	considerations
soil name	
542C:	
Haugen, very stony	Wetness
Haugen	Wetness
544F:	
Menahga	Slope Poor traction (loose sandy material)
Mahtomedi	Slope Poor traction (loose sandy material)
553B:	
Branstad	Susceptible to rutting and wheel slippage
553C:	
Branstad	Susceptible to rutting and wheel slippage
553D:	
Branstad 	Slope Susceptible to rutting and wheel slippage
555A:	
Fordum	Flooding
	Wetness
	Susceptible to rutting and wheel slippage
F. F. 7	
557B: Shawano	Poor traction (loose sandy material)
557C:	
Shawano	Poor traction (loose sandy material)
557D:	
Shawano	Slope
İ	Poor traction (loose sandy material)
İ	
586A:	
Chelmo	Wetness
i	Susceptible to rutting and wheel slippage
600A:	
Haplosaprists	Onsite investigation required
D	Oneiles immediateles accordant
Psammaquents	Onsite investigation required
615B:	
Cress	No major considerations
615C:	
Cress	No major considerations
615D:	
Cress	Slope
i	-
620C:	
Lundeen	Areas of rock outcrop
 Haustrup	Areas of rock outcrop
Rock outcrop.	
I	

Table 10.--Forest Land Harvest Equipment Considerations--Continued

Map symbol	Forest land harvest equipment
and	considerations
soil name	<u> </u>
621A:	
Bjorkland	Wetness
	Susceptible to rutting and wheel slippage
	Poor traction (loose sandy material)
623A:	Water
Capitola	Wetness Suggestible to rutting and wheel glinnage
	Susceptible to rutting and wheel slippage
624A:	
Ossmer	Wetness
631A:	Water
Giese	Wetness Suggestible to rutting and wheel glinnage
	Susceptible to rutting and wheel slippage
632A:	
Aftad	Wetness
632B:	
Aftad	Wetness
632C:	
Aftad	Wetness
634C:	
Drylanding	No major considerations
_	
Beartree	Wetness
	Susceptible to rutting and wheel slippage
Rock outcrop.	
-	
635C:	
Drylanding	No major considerations
Beartree	Wetness
Dear cree	Susceptible to rutting and wheel slippage
Rock outcrop.	
648B:	
Sconsin	Wetness
669D:	
Fremstadt, stony	Slope
	Poor traction (loose sandy material)
Pomroy	-
	Wetness Poor traction (loose sandy material)
	1001 Stateton (100se sandy material)
671B:	
Spoonerhill, stony	Wetness
_	
Spoonerhill	Wetness
706A:	
Winterfield	Flooding
-	Wetness
	Poor traction (loose sandy material)
Totagatic	Flooding
	Wetness
	Poor traction (loose sandy material)

Table 10.--Forest Land Harvest Equipment Considerations--Continued

Map symbol	Forest land harvest equipment
and	considerations
soil name	
715A:	
Mora	Wetness
717B:	
Milaca	Wetness
717C:	
Milaca	Wetness
720F:	
Haustrup	l glone
hauscrup	-
	Areas of rock outcrop
_	
Lundeen	_
	Areas of rock outcrop
Rock outcrop.	
726B:	
Sissabagama	Wetness
_	Poor traction (loose sandy material)
742B:	
Milaca	Watness
MIIaCa	wethess
T.10.7	
742C:	
Milaca	Wetness
742D:	
Milaca	Slope
	Wetness
755A:	
Moppet	No major considerations
Fordum	Flooding
1 0 1 0 0 0 0	Wetness
	Susceptible to rutting and wheel slippage
7713	
771A:	
Lenroot	Poor traction (loose sandy material)
812B:	
Mora	Wetness
825A:	
Meehan	Wetness
	Poor traction (loose sandy material)
	• •
896A:	
	Poor traction (loose sandy material)
0907.	
980A:	Waterana
Soderbeck	
	Surface boulders
1070C:	
Fremstadt	Poor traction (loose sandy material)
Cress	No major considerations
	ı

Table 10.--Forest Land Harvest Equipment Considerations--Continued

Map symbol	Forest land harvest equipment
and soil name	considerations
SOII Hame	
1070D:	
Fremstadt	_
	Poor traction (loose sandy material)
Cress	Slope
İ	
1080B: Spoonerhill	Watness
spoonermili	wethess
Spoonerhill, stony	Wetness
Gwanz	Wa madan annadamakiana
Cress	No major considerations
2002.	
Udorthents, earthen dams	
2015.	
Pits	
2050. Landfill	
3011A:	
Barronett	Wetness Susceptible to rutting and wheel slippage
	busceptible to lutting and wheel slippage
3082E:	
Braham	Slope Poor traction (loose sandy material)
Shawano	Slope
	Poor traction (loose sandy material)
3114A:	
Saprists	Wetness
	Susceptible to rutting and wheel slippage
Aquents	Wetness
	Susceptible to rutting and wheel slippage
	Poor traction (loose sandy material)
Aquepts	Wetness
j	Susceptible to rutting and wheel slippage
3125A:	
Meehan	Wetness
	Poor traction (loose sandy material)
3126A:	
	Poor traction (loose sandy material)
İ	· · · · · · · · · · · · · · · · · · ·
3312B:	Wetness
Glendenning, very stony	Methess
Glendenning	Wetness
22263	
3336A: Fenander	Wetness
İ	

Table 10.--Forest Land Harvest Equipment Considerations--Continued

Map symbol	Forest land harvest equipment
and	considerations
soil name	
3403A:	
Loxley	
	Susceptible to rutting and wheel slippage
Beseman	Wetness
	Susceptible to rutting and wheel slippage
Dawson	Wetness Susceptible to rutting and wheel slippage
	busceptible to futting and wheel slippage
3429B:	
Lara	
	Poor traction (loose sandy material)
3429C:	
Lara	
	Poor traction (loose sandy material)
3446A:	
Newson	Wetness
	Susceptible to rutting and wheel slippage
	Poor traction (loose sandy material)
3448B:	
Grettum	Poor traction (loose sandy material)
3448C:	
	Poor traction (loose sandy material)
	·
3510B:	
Pomroy	wetness Poor traction (loose sandy material)
Fremstadt	Poor traction (loose sandy material)
Fremstadt stony	Poor traction (loose sandy material)
Trembedde, Been,	
3510C:	
Pomroy	
	Poor traction (loose sandy material)
Fremstadt	Poor traction (loose sandy material)
To an about	
Fremstadt, stony	Poor traction (loose sandy material)
3511A:	
Bushville	
	Poor traction (loose sandy material)
3516A:	
Slimlake	No major considerations
3625A:	
Lino	Wetness
	Poor traction (loose sandy material)
26267.	
3626A: Crex	Poor traction (loose sandy material)
	and and and and and and and and and and
3629B:	
Perida	Wetness Poor traction (loose sandy material)
	Station (1995) Bandy material)

Table 10.--Forest Land Harvest Equipment Considerations--Continued

Map symbol	Forest land harvest equipment
and	considerations
soil name	
 3636B:	
Plainbo	Poor traction (loose sandy material)
3636C:	
Plainbo	Poor traction (loose sandy material)
1-W.	
Miscellaneous water	
w.	
Water	
j	

Table 11.--Forest Haul Road Considerations

(See text for a description of the considerations listed in this table)

Map symbol	Forest haul road
and	considerations
soil name	
3A:	
Totagatic	Flooding
	Wetness
	Low bearing strength
Bowstring	_
	Wetness
	Low bearing strength
313	.
Ausable	
	Wetness
	Low bearing strength
12A:	
Makwa	Flooding
Makwa	Wetness
	Low bearing strength
	Low Dearing Berengen
22A:	
Comstock	Wetness
	Low bearing strength
i	
27A:	
Scott Lake	No major considerations
28B:	
Haugen, very stony	Wetness
Haugen	Wetness
Rosholt, very stony	No major considerations
Rosholt	No major considerations
200	
28C:	
Haugen, very stony	-
	Wetness
Haugen	Slope
naugen	Wetness
	Hechess
Rosholt, very stony	Slope
negners, very seemy	51020
Rosholt	Slope
38A:	
Rosholt	No major considerations
38B:	
Rosholt	No major considerations
38C:	
Rosholt	Slope
38D:	
Rosholt	Slope
42D:	
Amery	Slope

Table 11.--Forest Haul Road Considerations--Continued

Map symbol	Forest haul road
and soil name	considerations
43B: Antigo	No major considerations
43C: Antigo	Slope
63A: Crystal Lake	Wetness Low bearing strength
63B: Crystal Lake	Wetness Low bearing strength
63C: Crystal Lake	Slope Wetness Low bearing strength
64A: Totagatic	Flooding Wetness Low bearing strength
Winterfield	Flooding Wetness
69C: Keweenaw	Slope
Sayner	Slope
Vilas	Slope
69E: Keweenaw	Slope
Sayner	Slope
Vilas	Slope
82B: Cutaway	No major considerations
Branstad	Low bearing strength
82C: Cutaway	Slope
Branstad	Slope Low bearing strength
83A: Smestad	Wetness
85B: Taylor	Wetness Low bearing strength
85C: Taylor	Slope Wetness Low bearing strength

Table 11.--Forest Haul Road Considerations--Continued

Map symbol	Forest haul road
and	considerations
soil name	
86A:	
Indus	Wetness
Indub	Low bearing strength
	low bearing screngen
21	***
Alango	Wetness
	Low bearing strength
89A:	
Wildwood	Wetness
	Low bearing strength
96B:	
Karlsborg	Wetness
96C:	
Karlsborg	Slope
3	Wetness
96D:	
Karlsborg	Clone
karisborg	-
	Wetness
1000	
100B:	
Menahga	No major considerations
100C:	
Menahga	Slope
100D:	
Menahga	Slope
120B:	
Kost	No major considerations
127D:	
Amery	Slope
-	*
Rosholt	Slope
127E:	
Amery	Slone
·····CT y	Slope
Poshel t	Clara
Rosholt	Slope
1513	
151A:	<u> </u>
Bluffton	
	Low bearing strength
152A:	
Alstad	Wetness
	Low bearing strength
154E:	
Cushing	Slope
-	Low bearing strength
156B:	
Magnor, very stony	Wetness
inghor, very beony	
Magnor	Wetness
magnot	песпера

Table 11.--Forest Haul Road Considerations--Continued

Map symbol	Forest haul road
and	considerations
soil name	
157B:	
Freeon, very stony	Wetness
1100011, 1017 200117	
Freeon	Wetness
riecon	Wethess
157C:	
Freeon, very stony	01
freedn, very stony	Wetness
	wethess
B	01
Freeon	_
	Wetness
1603	
160A:	Trabana a
Oesterle	wetness
4.55	
165B:	 Wa madan mamadan
Elderon	No major considerations
10FD.	
185B:	Water and
Tradelake	Wetness
Taylor	
	Low bearing strength
185C:	
Tradelake	_
	Wetness
Taylor	<u> </u>
	Wetness
	Low bearing strength
185D:	
Tradelake	_
	Wetness
Taylor	_
	Wetness
	Low bearing strength
185E:	
Tradelake	Slope
	Wetness
Taylor	_
	Wetness
	Low bearing strength
189A:	
Siren	Wetness
	Low bearing strength
193A:	
Minocqua	Wetness
	Low bearing strength
337A:	
Plover	Wetness
368B:	
Mahtomedi	No major considerations
Cress	No major considerations
	-

Table 11.--Forest Haul Road Considerations--Continued

Map symbol	Forest haul road
and soil name	considerations
DOIL NAME	
368C:	
Mahtomedi	Slope
Cress	Slope
368D:	
Mahtomedi	Slope
Cress	Slope
368E:	
Mahtomedi	Slope
Cress	Slope
380B:	
Cress	No major considerations
Rosholt	No major considerations
380C:	
Cress	Slope
Rosholt	Slope
İ	- -
380D: Cress	Slope
İ	•
Rosholt	Slope
383B:	
Mahtomedi	No major considerations
383C:	
Mahtomedi	Slope
2020	
383D: Mahtomedi	Slope
	•
392C:	61
Rockmarsh	Slope Wetness
j	Low bearing strength
Dairyland	Slope Wetness
i	
Makwa	_
	Wetness Low bearing strength
	now bearing screngen
396B:	
Friendship	No major considerations
Wurtsmith	No major considerations
İ	
Grayling	No major considerations
397A:	
Perchlake	Wetness
399B:	
Grayling	No major considerations
I	

Table 11.--Forest Haul Road Considerations--Continued

Map symbol	Forest haul road
and	considerations
soil name	
399C:	
Grayling	Slope
Graying	biope
399D:	
Grayling	Slope
3	
10.50	
406A:	
Loxley	Wetness
	Low bearing strength
4073	
407A:	
Seelyeville	Wetness
	Low bearing strength
Markey	Wotness
Markey	
	Low bearing strength
410A:	
Seelyeville	Wetness
beergeviiie	
	Low bearing strength
Cathro	Wetness
	Low bearing strength
44.00	
419A:	
Seelyeville	Wetness
	Low bearing strength
Cathan	Waters
Cathro	Wetness
	Low bearing strength
Markey	Wetness
	Low bearing strength
421A:	
Dora	Wetness
	Low bearing strength
	2011 20022119 2020119011
•	
Markey	Wetness
	Low bearing strength
Seelyeville	Wetness
2001/041110	
	Low bearing strength
422A:	
Seelyeville	Wetness
	Low bearing strength
Cathro	Wetness
	Low bearing strength
Dondoou	Wetness
Rondeau	
	Low bearing strength
426B:	
	No major garaidoraticas
Emmert	NO Major Considerations
Mahtomedi	No major considerations
Monahga	No major gongidorations
Menahga	NO Major Considerations

Table 11.--Forest Haul Road Considerations--Continued

Map symbol	Forest haul road
and	considerations
soil name	
426C:	
Emmert	Slope
	21020
Mahtomedi	Clone
Mancomedi	Slope
,	
Menahga	Slope
426D:	
Emmert	Slope
Mahtomedi	Slope
Menahga	Slope
430A:	
Freya	Wetness
439B:	
Graycalm	No major gongidorations
Graycaim	NO major considerations
Manahaa	Wa madan manadanakiana
Menahga	No major considerations
439C:	
Graycalm	Slope
Menahga	Slope
439D:	
Graycalm	Slope
Menahga	Slope
442C:	
Haugen	Slope
j	Wetness
Greenwood	Wetness
	Low bearing strength
	now bearing screngen
443D:	
	G1
Amery	Slope
G	Walter
Greenwood	Wetness
	Low bearing strength
459A:	
Loxley	Wetness
	Low bearing strength
Daisybay	Wetness
	Low bearing strength
j	
Dawson	Wetness
i	Low bearing strength
i	
461A:	
Bowstring	Flooding
·	Wetness
	Low bearing strength
l l	

Table 11.--Forest Haul Road Considerations--Continued

Map symbol	Forest haul road
and	considerations
soil name	
465A:	
Newson	 Wetness
Newson	
	Low bearing strength
Meehan	Wetness
469E:	
Bigisland	·
	Low bearing strength
Milaca	Slope
	Wetness
471B:	
Dairyland	Wetness
Emmert	No major considerations
471C:	
Dairyland	Slope
	Wetness
Emmert	Slope
472A:	
Rockmarsh	Flooding
	Wetness
	Low bearing strength
Clemens	Flooding
	Wetness
	Low bearing strength
473A:	
Dairyland	Wetness
•	
Skog	No major considerations
5	
484A:	
Greenwood	Wetness
	Low bearing strength
Beseman	Wetness
	Low bearing strength
485C:	
Lupton	Slope
• **	Wetness
	Low bearing strength
Tawas	Slope
- 	Wetness
	Low bearing strength
	Low Scatting Sciengen
495B:	
Karlsborg	Wetness
Mariphory	
Grettum	No major considerations
GT 600 Cmil	NO major considerations
Perida	Wetness
101144	11000000
	I

Table 11.--Forest Haul Road Considerations--Continued

Map symbol	Forest haul road
and	considerations
soil name	
495C:	
Karlsborg	Slope
Rullborg	Wetness
	wethess
Garant Income	
Grettum	Slope
Perida	_
	Wetness
495D:	
Karlsborg	Slope
	Wetness
Grettum	Slope
Perida	Slope
	Wetness
496B:	
Karlsborg	Wetness
496C:	
Karlsborg	Clone
kalisbolg	Wetness
	wetness
40.50	
496D:	
Karlsborg	_
	Wetness
497A:	
Meenon	Wetness
521A:	
Dody	Wetness
	Low bearing strength
523A:	
Nokasippi	Wetness
	Low bearing strength
529B:	
Perida	Wetness
531A:	
Stengel	Wetness
200501	
542B:	
Haugen, very stony	Wotpogg
haugen, very scony	Wechess
	Waterana
Haugen	wetness
5400	
542C:	
Haugen, very stony	-
	Wetness
Haugen	-
	Wetness
544F:	
Menahga	Slope
Mahtomedi	Slope

Table 11.--Forest Haul Road Considerations--Continued

Map symbol	Forest haul road
and	considerations
soil name	
553B:	
Branstad	Low bearing strength
i	
553C:	
Branstad	-
	Low bearing strength
553D:	
Branstad	Slope
	Low bearing strength
F.F.S.	
555A: Fordum	Flooding
	Wetness
İ	Low bearing strength
557B: Shawano	No major considerations
Shawano	no major comprediations
557C:	
Shawano	Slope
F.F.7D .	
557D: Shawano	Slope
Jiiawano	51050
586A:	
Chelmo	Wetness
	Low bearing strength
600A:	
Haplosaprists	Onsite investigation required
Psammaquents	Onsite investigation required
615B:	
Cress	No major considerations
615C: Cress	Clone
Cless	Slope
615D:	
Cress	Slope
5005	
620C: Lundeen	Slone
	Areas of rock outcrop
İ	_
Haustrup	-
	Depth to hard rock Areas of rock outcrop
	Areas of fock outcrop
Rock outcrop.	
1	
621A:	Wotness
Bjorkland	Wetness Low bearing strength
i	
623A:	
Capitola	
	Low bearing strength
624A:	
Ossmer	Wetness
I	

Table 11.--Forest Haul Road Considerations--Continued

Map symbol	Forest haul road
and soil name	considerations
531A:	Water
Giese	Wetness Low bearing strength
i	now bearing belengen
332A:	
Aftad	Wetness
532B:	
Aftad	Wetness
į	
532C:	-3
Aftad	Slope Wetness
i	Hechess
34C:	
Drylanding	_
l l	Depth to hard rock
Beartree	Wetness
į	Depth to hard rock
Į.	Low bearing strength
Rock outcrop.	
Noon outerop.	
35C:	
Drylanding	_
	Depth to hard rock
Beartree	Wetness
	Depth to hard rock
ļ	Low bearing strength
Posts outgron	
Rock outcrop.	
548B:	
Sconsin	Wetness
Fremstadt, stony	Slope
i i	-
Pomroy	_
	Wetness
571B:	
Spoonerhill, stony	Wetness
Spoonerhill	wetness
706A:	
Winterfield	Flooding
	Wetness
i	
Totagatic	Flooding
Totagatic	Flooding Wetness
į	_
 	Wetness
į	Wetness
 	Wetness
/15A: Mora	Wetness
/15A: Mora /17B: Milaca	Wetness
/15A: Mora /17B:	Wetness Wetness

Table 11.--Forest Haul Road Considerations--Continued

Map symbol and	Forest haul road considerations
soil name	
720F: Haustrup	Slone
	Depth to hard rock
	Areas of rock outcrop
Lundeen	Slope
Bundeen	Areas of rock outcrop
Rock outcrop.	
726B:	
Sissabagama	Wetness
742B:	
Milaca	Wetness
742C: Milaca	Slope
MIIaca	Wetness
742D: Milaca	Slope
MIIded	Wetness
755A: Moppet	No major considerations
моррес	No major considerations
Fordum	_
	Wetness Low bearing strength
	low bearing screngen
771A:	
Lenroot	No major considerations
812B:	
Mora	Wetness
825A:	
Meehan	Wetness
896A: Wurtsmith	No major considerations
Har compet	no major compractations
980A:	
Soderbeck	Wetness Surface boulders
1070C:	
Fremstadt	Slope
Cress	Slope
1070D: Fremstadt	Slope
	
Cress	Slope
1080B:	
Spoonerhill	Wetness
Garage and All and	· ·
Spoonerhill, stony	Wetness
Cress	No major considerations
İ	

Table 11.--Forest Haul Road Considerations--Continued

Map symbol	Forest haul road
and	considerations
	Considerations
soil name	
2002.	
Udorthents, earthen dams	
dat thereby car their damb	
2015.	
Pits	
i	
2050.	
Landfill	
3011A:	
Barronett	Wetness
2411011000	
	Low bearing strength
3082E:	
Braham	Slope
	
Glasses and	
Shawano	Slope
3114A:	
Saprists	Wetness
bapiibob	
	Low bearing strength
Aquents	Wetness
İ	Low bearing strength
i	
3	****
Aquepts	
	Low bearing strength
3125A:	
Meehan	Wetness
meenan	wechess
3126A:	
Wurtsmith	No major considerations
i	
3312B:	
Glendenning, very stony	Wetness
Glendenning	Wetness
.	
22263	
3336A:	
Fenander	Wetness
3403A:	
Loxley	Wetness
TOVIEL	
	Low bearing strength
Beseman	Wetness
i	Low bearing strength
	now bearing screngen
Dawson	Wetness
	Low bearing strength
i	
3429B:	
	Matanaga
Lara	Wetness
3429C:	
Lara	Slope
==== =	Wetness
	HECHESS
3446A:	
Newson	Wetness
i	Low bearing strength

Table 11.--Forest Haul Road Considerations--Continued

Map symbol	Forest haul road
and	considerations
soil name	
3448B:	
Grettum	No major considerations
3448C:	
Grettum	Slope
3510B:	
Pomroy	Wetness
-	
Fremstadt	No major considerations
Fremstadt, stony	No major considerations
3510C:	
Pomroy	Slone
1 OME Of	Wetness
	Wethess
Fremstadt	 Slope
riemstadt	Slope
Townstadt store	
Fremstadt, stony	Slope
0.514.5	
3511A:	
Bushville	Wetness
3516A:	
Slimlake	No major considerations
3625A:	
Lino	Wetness
3626A:	
Crex	No major considerations
3629B:	
Perida	Wetness
3636B:	
Plainbo	No major considerations
3636C:	
Plainbo	Slope
M-W.	
Miscellaneous water	
W.	
Water	
	1

Table 12.--Forest Log Landing Considerations

(See text for a description of the considerations listed in this table)

Mon gh-1	Bowest log logding
Map symbol and	Forest log landing considerations
soil name	
3A: Totagatic	Flooding Wetness Susceptible to rutting and wheel slippage
Bowstring	
Ausable	Flooding Wetness Susceptible to rutting and wheel slippage
12A: Makwa	Flooding Wetness Susceptible to rutting and wheel slippage
22A: Comstock	Wetness Susceptible to rutting and wheel slippage
27A: Scott Lake	No major considerations
28B: Haugen, very stony	Wetness
Haugen	Wetness
Rosholt, very stony	No major considerations
Rosholt	No major considerations
28C: Haugen, very stony	Slope Wetness
Haugen	Slope Wetness
Rosholt, very stony	Slope
Rosholt	Slope
38A: Rosholt	No major considerations
38B: Rosholt	No major considerations
38C: Rosholt	Slope
38D: Rosholt	Slope
42D: Amery	Slope
43B: Antigo	No major considerations

Table 12.--Forest Log Landing Considerations--Continued

Map symbol and soil name	Forest log landing considerations
43C:	
Antigo	Slope
63A: Crystal Lake	Wetness Susceptible to rutting and wheel slippage
63B: Crystal Lake	Wetness Susceptible to rutting and wheel slippage
63C: Crystal Lake	Slope Wetness Susceptible to rutting and wheel slippage
64A:	
Totagatic	Flooding Wetness Susceptible to rutting and wheel slippage
Winterfield	Flooding Wetness
69C:	
Keweenaw	Slope
Sayner	Slope
Vilas	Slope
69E: Keweenaw	Slope
Sayner	Slope
Vilas	Slope
82B: Cutaway	No major considerations
Branstad	Susceptible to rutting and wheel slippage
82C: Cutaway	Slope
Branstad	Slope Susceptible to rutting and wheel slippage
83A: Smestad	Wetness
85B: Taylor	Wetness Susceptible to rutting and wheel slippage
85C: Taylor	Slope Wetness Susceptible to rutting and wheel slippage

Table 12.--Forest Log Landing Considerations--Continued

Map symbol	Forest log landing
and	considerations
soil name	
86A:	
Indus	Wetness
	Susceptible to rutting and wheel slippage
Alango	Wetness
11141190	
	Susceptible to rutting and wheel slippage
89A:	
Wildwood	Wetness
	Susceptible to rutting and wheel slippage
96B:	
Karlsborg	Wetness
96C:	
Karlsborg	Slope
3	Wetness
	We cheed
96D:	
Karlsborg	-
	Wetness
100B:	
Menahga	No major considerations
100C:	
Menahga	Slope
Š	•
100D:	
Menahga	Slope
gu	51000
120B:	
	 Wa madan gangdanakdana
Kost	No major considerations
1055	
127D:	
Amery	Slope
Rosholt	Slope
127E:	
Amery	Slope
_	
Rosholt	Slope
151A:	
Bluffton	Wetness
Bluffton	
	Susceptible to rutting and wheel slippage
152A:	
Alstad	
	Susceptible to rutting and wheel slippage
154E:	
Cushing	Slope
-	Susceptible to rutting and wheel slippage
156B:	
Magnor, very stony	Wetness
magnor, very stony	песперр
Magnan	Wetness
Magnor	Welhers

Table 12.--Forest Log Landing Considerations--Continued

Map symbol	Forest log landing
and	considerations
soil name	
157B:	Wahaasa
Freeon, very stony	wechess
Freeon	Wetness
157C:	
Freeon, very stony	Slope
i i	Wetness
Freeon	-
	Wetness
160A:	
Oesterle	Wetness
i	
165B:	
Elderon	No major considerations
1050	
185B: Tradelake	Wetness
Traderane	ne chebb
Taylor	Wetness
İ	Susceptible to rutting and wheel slippage
185C:	g1
Tradelake	Slope Wetness
	ne chebb
Taylor	Slope
	Wetness
	Susceptible to rutting and wheel slippage
185D:	
Tradelake	Slope
i	Wetness
Taylor	Slope
	Wetness Susceptible to rutting and wheel slippage
	susceptible to futting and wheel slippage
185E:	
Tradelake	Slope
	Wetness
maral an	g1
Taylor	Wetness
	Susceptible to rutting and wheel slippage
i	
189A:	
Siren	
	Susceptible to rutting and wheel slippage
193A:	
Minocqua	Wetness
Ī	Susceptible to rutting and wheel slippage
337A:	Water
Plover	wetness
368B:	
Mahtomedi	No major considerations
İ	
Cress	No major considerations

Table 12.--Forest Log Landing Considerations--Continued

Map symbol	Forest log landing
and	considerations
soil name	
2000	
368C: Mahtomedi	Slone
Mancomedi	prope
Cress	Slope
j	-
368D:	
Mahtomedi	Slope
Cmaga	Clone
Cress	Slope
368E:	
Mahtomedi	Slope
Cress	Slope
380B:	
Cress	No major considerations
Rosholt	No major considerations
Į.	
380C:	G1
Cress	Slope
Rosholt	Slope
į	-
380D:	
Cress	Slope
Rosholt	Slope
KOSHOIC	510pe
383B:	
Mahtomedi	No major considerations
383C:	Clone
Mancomedi	Slope
383D:	
Mahtomedi	Slope
392C:	Clone
Rockmarsh	Slope Wetness
	Susceptible to rutting and wheel slippage
į	
Dairyland	Slope
	Wetness
Makwa	Slone
Maxwa	Wetness
İ	Susceptible to rutting and wheel slippage
396B:	
Friendship	No major considerations
Wurtsmith	No major considerations
Grayling	No major considerations
!	
397A:	Webness
Perchlake	nethess
399B:	
Grayling	No major considerations
I	

Table 12.--Forest Log Landing Considerations--Continued

Map symbol and	Forest log landing considerations
soil name	
399C:	
Grayling	Slope
399D:	
Grayling	Slope
İ	
406A:	
Loxley	Wetness Susceptible to rutting and wheel slippage
	busceptible to lutting and wheel slippage
407A:	
Seelyeville	Wetness
	Susceptible to rutting and wheel slippage
Markey	Wetness
_	Susceptible to rutting and wheel slippage
410A: Seelyeville	Webness
Seelyeville	Susceptible to rutting and wheel slippage
Cathro	Wetness
	Susceptible to rutting and wheel slippage
419A:	
Seelyeville	Wetness
i i	Susceptible to rutting and wheel slippage
Cathro	Wetness Susceptible to rutting and wheel slippage
	susceptible to futting and wheel slippage
Markey	Wetness
	Susceptible to rutting and wheel slippage
421A:	
Dora	Wetness
	Susceptible to rutting and wheel slippage
Markey	Wetness
	Susceptible to rutting and wheel slippage
Seelyeville	Wetness
	Susceptible to rutting and wheel slippage
4000	
422A: Seelyeville	Wetness
beergeviite	Susceptible to rutting and wheel slippage
İ	
Cathro	
	Susceptible to rutting and wheel slippage
Rondeau	Wetness
	Susceptible to rutting and wheel slippage
426B: Emmert	No major considerations
mmet C	No major considerations
Mahtomedi	No major considerations
Menahga	No major considerations

Table 12.--Forest Log Landing Considerations--Continued

Map symbol and soil name	Forest log landing considerations
426C: Emmert	Slope
Mahtomedi	Slope
Menahga	Slope
426D: Emmert	Slope
Mahtomedi	Slope
Menahga	Slope
430A: Freya	Wetness
439B: Graycalm	No major considerations
Menahga	No major considerations
439C: Graycalm	Slope
Menahga	Slope
439D: Graycalm	Slope
Menahga	Slope
442C: Haugen	Slope Wetness
Greenwood	Wetness Susceptible to rutting and wheel slippage
443D: Amery	Slope
Greenwood	Wetness Susceptible to rutting and wheel slippage
459A:	
Loxley	Wetness Susceptible to rutting and wheel slippage
Daisybay	Wetness Susceptible to rutting and wheel slippage
Dawson	Wetness Susceptible to rutting and wheel slippage
461A: Bowstring	Flooding Wetness Susceptible to rutting and wheel slippage
465A: Newson	Wetness Susceptible to rutting and wheel slippage
Meehan	Wetness

Table 12.--Forest Log Landing Considerations--Continued

Map symbol	Forest log landing
and	considerations
soil name	
469E:	
Bigisland	Slope
5	Susceptible to rutting and wheel slippage
	babeeperbie to racting and wheer birppage
Wilson	01
Milaca	Slope
	Wetness
471B:	
Dairyland	Wetness
Emmert	No major considerations
471C:	
Dairyland	Slope
	Wetness
Emmert	Slope
472A:	
Rockmarsh	Flooding
i	Wetness
	Susceptible to rutting and wheel slippage
Clemens	Flooding
CIEMENS	Wetness
	Susceptible to rutting and wheel slippage
4723	
473A:	*** b
Dairyland	Wetness
Skog	No major considerations
484A:	
Greenwood	Wetness
	Susceptible to rutting and wheel slippage
Beseman	Wetness
	Susceptible to rutting and wheel slippage
485C:	
Lupton	Slope
	Wetness
	Susceptible to rutting and wheel slippage
Tawas	Slope
	Wetness
i	Susceptible to rutting and wheel slippage
i	
495B:	
Karlsborg	Wetness
Grettum	No major considerations
Perida	Wetness
495C:	
	Clone
Karlsborg	-
	Wetness
Crattur	Clana
Grettum	Slope
Paral da	61 and a
Perida	-
	Wetness

Table 12.--Forest Log Landing Considerations--Continued

Map symbol	Forest log landing
and	considerations
soil name	
495D:	
Karlsborg	Slope
	Wetness
Grettum	Slope
Perida	Slope
	Wetness
496B:	
Karlsborg	Wetness
4069	
496C:	Gl and
Karlsborg	Slope Wetness
	Wechess
496D:	
Karlsborg	Slope
	Wetness
i	
497A:	
Meenon	Wetness
521A:	
Dody	Wetness
	Susceptible to rutting and wheel slippage
523A:	
Nokasippi	
	Susceptible to rutting and wheel slippage
5000	
529B: Perida	Wetness
reliua	Wechess
531A:	
Stengel	Wetness
542B:	
Haugen, very stony	Wetness
Haugen	Wetness
542C:	
Haugen, very stony	Slope
	Wetness
**	g1
Haugen	Wetness
· ·	
544F:	
Menahga	Slope
- i	
Mahtomedi	Slope
İ	
553B:	
Branstad	Susceptible to rutting and wheel slippage
553C:	-3
Branstad	-
	Susceptible to rutting and wheel slippage
553D:	
Branstad	Slope
	Susceptible to rutting and wheel slippage
	und mode brippage

Table 12.--Forest Log Landing Considerations--Continued

Map symbol	Forest log landing
and	considerations
soil name	
555A:	
Fordum	Flooding
	Wetness
	Susceptible to rutting and wheel slippage
557B:	
Shawano	No major considerations
557C:	
Shawano	Slope
557D:	
Shawano	Slope
586A:	
Chelmo	
	Susceptible to rutting and wheel slippage
600A:	
Haplosaprists	Onsite investigation required
D	
Psammaquents	Onsite investigation required
C15D	
615B:	 Wa madan namaddanahdana
Cress	NO Major considerations
615C:	
Cress	 Slope
Cless	Slope
615D:	
Cress	Slope
01000	
620C:	
Lundeen	Slope
	Areas of rock outcrop
	-
Haustrup	Slope
	Areas of rock outcrop
Rock outcrop.	
621A:	
Bjorkland	Wetness
	Susceptible to rutting and wheel slippage
623A:	
Capitola	Wetness
	Susceptible to rutting and wheel slippage
624A:	
Ossmer	Wetness
6213	
631A:	
Giese	
	Susceptible to rutting and wheel slippage
(223.	
632A:	Water and
Aftad	Wetness
6228.	
632B: Aftad	Wetness
ALCAU	HECTICOD
	I

Table 12.--Forest Log Landing Considerations--Continued

Map symbol	Forest log landing
and	considerations
soil name	
622.0	
632C:	
Aftad	Slope
	Wetness
634C:	
Drylanding	Slope
1	_ _
Beartree	Wetness
bear tree	
	Susceptible to rutting and wheel slippage
Rock outcrop.	
635C:	
Drylanding	Slope
1	_ _
Beartree	Wetness
bear tree	
	Susceptible to rutting and wheel slippage
Rock outcrop.	
648B:	
Sconsin	Wetness
beenbin	We cheed
6607	
669D:	
Fremstadt, stony	Slope
Pomroy	Slope
- i	Wetness
671D	
671B:	
Spoonerhill, stony	Wetness
Spoonerhill	Wetness
706A:	
Winterfield	Flooding
WINCELICIA	Wetness
	wechess
Totagatic	Flooding
	Wetness
j	
715A:	
Mora	Wetness
	···
7178.	
717B:	
Milaca	Wetness
717C:	
Milaca	Slope
i	Wetness
	,
7208.	
720F:	
Haustrup	_
	Areas of rock outcrop
Lundeen	Slope
i	Areas of rock outcrop
	== ===== = ====
Park subsuce	
Rock outcrop.	
726B:	
Sissabagama	Wetness
i	
'	

Table 12.--Forest Log Landing Considerations--Continued

Man grmhal	Forest les lendins
Map symbol and	Forest log landing considerations
soil name	
742B:	
Milaca	Wetness
742C:	
Milaca	:
	Wetness
742D:	
Milaca	Slope
	Wetness
755A:	
Moppet	Flooding
Bandon	
Fordum	Flooding Wetness
	Susceptible to rutting and wheel slippage
771A:	
Lenroot	No major considerations
812B:	
Mora	Wetness
825A:	
Meehan	Wetness
896A:	
Wurtsmith	No major considerations
980A:	
Soderbeck	wetness Surface boulders
	bullace boulders
1070C:	
Fremstadt	Slope
Cress	Slope
1070D:	
Fremstadt	 Slope
r rems caac	blobe
Cress	Slope
1080B:	
Spoonerhill	Wetness
Green and 111 and area	
Spoonerhill, stony	Wetness
Cress	No major considerations
CICDD	
2002.	
Udorthents, earthen dams	
2015.	
Pits	
2050.	
Landfill	
-	
3011A:	
Barronett	·
	Susceptible to rutting and wheel slippage

Table 12.--Forest Log Landing Considerations--Continued

Map symbol	Forest log landing
and	considerations
soil name	
3082E: Braham	Slope
Shawano	Slope
3114A:	
Saprists	Wetness Susceptible to rutting and wheel slippage
Aquents	Wetness Susceptible to rutting and wheel slippage
Aquepts	Wetness Susceptible to rutting and wheel slippage
3125A:	
Meehan	Wetness
3126A: Wurtsmith	No major considerations
3312B:	
Glendenning, very stony	Wetness
Glendenning	Wetness
3336A: Fenander	Wetness
3403A: Loxley	Wetness Susceptible to rutting and wheel slippage
Beseman	Wetness Susceptible to rutting and wheel slippage
Dawson	Wetness Susceptible to rutting and wheel slippage
3429B:	
Lara	Wetness
3429C: Lara	Slope Wetness
3446A: Newson	Wetness Susceptible to rutting and wheel slippage
3448B: Grettum	No major considerations
3448C: Grettum	Slope
3510B: Pomroy	Wetness
Fremstadt	No major considerations
Fremstadt, stony	No major considerations

Table 12.--Forest Log Landing Considerations--Continued

Man manhal	Denset lan landina
Map symbol	Forest log landing
and	considerations
soil name	
3510C:	
Pomroy	
Pomroy	:
	Wetness
Fremstadt	Slope
1 I Child Cude	
Fremstadt, stony	Slope
3511A:	
Bushville	Wetness
3516A:	
Slimlake	No major considerations
3625A:	
Lino	Wetness
3626A:	
ozoa: Crex	No major considerations
Crex	No major considerations
3629B:	
Perida	Wetness
3636B:	
Plainbo	No major considerations
3636C:	
Plainbo	Slope
M-W.	
Miscellaneous water	
W.	
Water	
насет	!

Table 13.--Forest Land Site Preparation and Planting Considerations
(See text for a description of the considerations listed in this table)

Map symbol	Forest land site preparation and planting
and	considerations
soil name	
3A:	
Totagatic	Flooding
	Wetness
Bowstring	Flooding
bows cring	Wetness
Ausable	Flooding
	Wetness
12A:	
Makwa	Flooding
	Wetness
	Surface stones
	Cobbly surface
22A:	
Comstock	Wetness
	Potential poor tilth and compaction
0.53	
27A: Scott Lake	Cobbly surface
Beete Hane	cobbin buriace
28B:	
Haugen, very stony	
	Surface stones
	Cobbly surface
Haugen	Wetness
	Cobbly surface
Rosholt, very stony	Surface stones Cobbly surface
	CODDIY SUITAGE
Rosholt	Cobbly surface
28C:	Webness
Haugen, very stony	Surface stones
	Cobbly surface
	Water erosion
_	
Haugen	Wetness Cobbly surface
	Water erosion
Rosholt, very stony	
	Cobbly surface
	Water erosion
Rosholt	Cobbly surface
	Water erosion
38A: Rosholt	Cobbly surface
KOBIIOI C	Cobbly surface
38B:	
Rosholt	Cobbly surface
209	
38C: Rosholt	Cobbly surface
NOBIIOI C	Water erosion

Table 13.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol and	Forest land site preparation and planting considerations
soil name	
38D: Rosholt	Slope Cobbly surface Water erosion
42D: Amery	Slope Surface stones Cobbly surface Water erosion
43B: Antigo	Cobbly surface
43C: Antigo	Cobbly surface Water erosion
63A: Crystal Lake	Wetness Potential poor tilth and compaction
63B: Crystal Lake	Wetness Potential poor tilth and compaction
63C: Crystal Lake	Wetness Water erosion Potential poor tilth and compaction
64A: Totagatic	Flooding Wetness
Winterfield	Flooding Wetness
69C: Keweenaw	Surface stones Water erosion
Sayner	Surface stones Cobbly surface Water erosion
Vilas	Surface stones Water erosion
69E: Keweenaw	Slope Surface stones Water erosion
Sayner	Slope Surface stones Cobbly surface Water erosion
Vilas	

Table 13.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol	Forest land site preparation and planting
and	considerations
soil name	
82B:	
	No major gongidorations
Cutaway	No major considerations
Branstad	No major considerations
82C:	
Cutaway	Water erosion
Branstad	Water erosion
83A:	Water and
Smestad	wetness
85B:	
Taylor	Wetness
-	Potential poor tilth and compaction
	· ·
85C:	
Taylor	Wetness
	Water erosion
	Potential poor tilth and compaction
86A:	
Indus	Wetness
Indus	Potential poor tilth and compaction
Alango	Wetness
İ	Potential poor tilth and compaction
89A:	
Wildwood	Wetness
0.67	
96B: Karlsborg	Wotnogg
Railsborg	Hethess
96C:	
Karlsborg	Wetness
Ī	Water erosion
96D:	
Karlsborg	_
	Wetness
	Water erosion
100B:	
Menahga	No major considerations
	· · · · · · · · · · · · · · · · · · ·
100C:	
Menahga	Water erosion
1	
100D:	
Menahga	
	Water erosion
120B:	
Kost	No major considerations
127D:	
Amery	Slope
İ	Surface stones
1	Cobbly surface
	Water erosion

Table 13.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol	Forest land site preparation and planting
and	considerations
soil name	
127D:	
Rosholt	_
	Surface stones
	Cobbly surface
	Water erosion
127E:	
Amery	Slope
	Surface stones
	Cobbly surface
	Water erosion
Rosholt	Slope
	Surface stones
	Cobbly surface
	Water erosion
151A:	
Bluffton	Wetness
152A:	
Alstad	
	Cobbly surface
154E:	
Cushing	-
	Cobbly surface
	Water erosion
156B:	
Magnor, very stony	
	Surface stones
	Cobbly surface
W	***
Magnor	Wetness
157B:	
Freeon, very stony	Wetness
rieeon, very scony	Surface stones
	Cobbly surface
	CODDIY SUFFACE
Freeon	Wetness
rieeon	Wechess
157C:	
Freeon, very stony	Wetness
riceon, very scony	Surface stones
	Cobbly surface
	Water erosion
	Matter Crobiton
Freeon	Wetness
riceon	Water erosion
160A:	
Oesterle	Wetness
	Cobbly surface
	-
165B:	
Elderon	No major considerations
185B:	
Tradelake	Wetness
	,
Taylor	Wetness
-	Potential poor tilth and compaction
	· · · · · · · · · · · · · · · · · · ·

Table 13.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol and soil name	Forest land site preparation and planting considerations
185C: Tradelake	Wetness Water erosion
Taylor	Wetness Water erosion Potential poor tilth and compaction
185D: Tradelake	Slope Wetness Water erosion
Taylor	Slope Wetness Water erosion Potential poor tilth and compaction
185E: Tradelake	Slope Wetness Water erosion
Taylor	Slope Wetness Water erosion Potential poor tilth and compaction
189A: Siren	Wetness Potential poor tilth and compaction
193A: Minocqua	Wetness
337A: Plover	Wetness
368B: Mahtomedi	Cobbly surface
Cress	Cobbly surface
368C: Mahtomedi	Cobbly surface Water erosion
Cress	Cobbly surface Water erosion
368D: Mahtomedi	Slope Cobbly surface Water erosion
Cress	Slope Cobbly surface Water erosion

Table 13.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol and soil name	Forest land site preparation and planting considerations
2.50=	
368E: Mahtomedi	Slope Cobbly surface Water erosion
Cress	Slope Cobbly surface Water erosion
380B: Cress	Cobbly surface
Rosholt	Cobbly surface
380C: Cress	Cobbly surface Water erosion
Rosholt	Cobbly surface Water erosion
380D: Cress	Slope Cobbly surface Water erosion
Rosholt	Slope Cobbly surface Water erosion
383B: Mahtomedi	Cobbly surface
383C: Mahtomedi	Cobbly surface Water erosion
383D: Mahtomedi	Slope Cobbly surface Water erosion
392C:	
Rockmarsh	Slope Wetness Surface stones Cobbly surface Water erosion
	Potential poor tilth and compaction
Dairyland	Slope Wetness Surface stones Cobbly surface Water erosion
Makwa	Wetness Surface stones Cobbly surface Water erosion

Table 13.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol and soil name	Forest land site preparation and planting considerations
396B:	
Friendship	No major considerations
Wurtsmith	No major considerations
Grayling	No major considerations
397A: Perchlake	Wetness
399B: Grayling	No major considerations
399C: Grayling	Water erosion
399D: Grayling	Slope Water erosion
406A: Loxley	Wetness
407A: Seelyeville	Wetness
Markey	Wetness
410A: Seelyeville	Wetness
Cathro	Wetness
419A: Seelyeville	Wetness
Cathro	Wetness
Markey	Wetness
421A: Dora	Wetness
Markey	Wetness
Seelyeville	Wetness
422A: Seelyeville	Wetness
Cathro	Wetness
Rondeau	Wetness
426B: Emmert	No major considerations
Mahtomedi	No major considerations
Menahga	No major considerations

Table 13.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol and soil name	Forest land site preparation and planting considerations
426C: Emmert	Water erosion
Mahtomedi	Water erosion
Menahga	Water erosion
426D: Emmert	Slope Water erosion
Mahtomedi	Slope Water erosion
Menahga	Slope Water erosion
430A: Freya	Wetness
439B: Graycalm	Cobbly surface
Menahga	No major considerations
439C: Graycalm	Cobbly surface Water erosion
Menahga	Water erosion
439D: Graycalm	Slope Cobbly surface Water erosion
Menahga	Slope Water erosion
442C: Haugen	Wetness Surface stones Cobbly surface Water erosion
Greenwood	Wetness
443D: Amery	Slope Surface stones Cobbly surface Water erosion
Greenwood	Wetness
459A: Loxley	Wetness
Daisybay	Wetness
Dawson	Wetness

Table 13.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol and soil name	Forest land site preparation and planting considerations
461A: Bowstring	Flooding Wetness
465A: Newson	Wetness
Meehan	Wetness
469E:	
Bigisland	Slope Surface stones Cobbly surface
	Water erosion
Milaca	Slope Wetness Surface stones
	Cobbly surface Water erosion
471B: Dairyland	Wetness Surface stones Cobbly surface
Emmert	
471C: Dairyland	Wetness Surface stones Cobbly surface Water erosion
Emmert	Surface stones Water erosion
472A:	
Rockmarsh	Flooding Wetness Surface stones
	Cobbly surface Potential poor tilth and compaction
Clemens	Flooding Wetness Surface stones Potential poor tilth and compaction
473A: Dairyland	Wetness Surface stones
Skog	Cobbly surface Surface stones Cobbly surface
484A: Greenwood	Wetness
Beseman	Wetness

Table 13.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol	Forest land site preparation and planting
and	considerations
soil name	
485C:	
Lupton	Wetness
	Water erosion
Tawas	Watness
lawas	Water erosion
İ	
495B:	Water
Karlsborg	wetness
Grettum	No major considerations
Perida	Wetness
495C:	
Karlsborg	Wetness
	Water erosion
Grettum	Water erosion
Perida	
	Water erosion
495D:	
Karlsborg	Slope
	Wetness
	Water erosion
Grettum	Slope
İ	Water erosion
Danida	glama.
Perida	Wetness
j	Water erosion
496B: Karlsborg	Wetness
Kai isboig	nethess
496C:	
Karlsborg	
	Water erosion
496D:	
Karlsborg	_
	Wetness Water erosion
	HACCI GLOSION
497A:	
Meenon	Wetness
521A:	
Dody	Wetness
į.	
523A:	Wotness
Nokasippi	Merness
529B:	
Perida	Wetness
531A:	
Stengel	Wetness
~	

Table 13.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol and soil name	Forest land site preparation and planting considerations
5405	
542B: Haugen, very stony	Wetness Surface stones Cobbly surface
Haugen	
542C: Haugen, very stony	Wetness Surface stones Cobbly surface Water erosion
Haugen	
544F: Menahga	Slope Water erosion
Mahtomedi	Slope Cobbly surface Water erosion
553B: Branstad	No major considerations
553C: Branstad	Water erosion
553D: Branstad	Slope Water erosion
555A: Fordum	Flooding Wetness Cobbly surface Potential poor tilth and compaction
FF7D .	
557B: Shawano	No major considerations
557C: Shawano	Water erosion
557D: Shawano	Slope Water erosion
586A: Chelmo	Wetness
600A: Haplosaprists	Onsite investigation required
Psammaquents	Onsite investigation required
615B: Cress	Cobbly surface

Table 13.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol and soil name	Forest land site preparation and planting considerations
615C: Cress	Cobbly surface Water erosion
615D: Cress	Slope Cobbly surface Water erosion
620C: Lundeen	Surface stones Areas of rock outcrop
Haustrup	Water erosion Depth to hard rock Surface stones Areas of rock outcrop
	Water erosion
	water erosion
Rock outcrop	Not rated
621A: Bjorkland	Wetness
623A: Capitola	Wetness Surface stones
624A: Ossmer	Wetness Cobbly surface
631A: Giese	Wetness Surface stones
632A: Aftad	Wetness
632B: Aftad	Wetness
632C: Aftad	Wetness Water erosion
634C: Drylanding	Depth to hard rock Water erosion
Beartree	Wetness Depth to hard rock Potential poor tilth and compaction
Rock outcrop.	
635C: Drylanding	Depth to hard rock Water erosion

Table 13.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol and soil name	Forest land site preparation and planting considerations
635C: Beartree	Wetness Depth to hard rock Potential poor tilth and compaction
Rock outcrop.	
648B: Sconsin	Wetness Cobbly surface
669D: Fremstadt, stony	Slope Surface stones Water erosion
Pomroy	Slope Wetness Water erosion
671B: Spoonerhill, stony	Wetness Surface stones Cobbly surface
Spoonerhill	Wetness Cobbly surface
706A: Winterfield	Flooding Wetness
Totagatic	Flooding Wetness
715A: Mora	Wetness Surface stones Cobbly surface
717B: Milaca	Wetness Surface stones Cobbly surface
717C: Milaca	Wetness Surface stones Cobbly surface Water erosion
720F: Haustrup	Slope Depth to hard rock Surface stones Areas of rock outcrop Water erosion
Lundeen	Slope Surface stones Areas of rock outcrop Water erosion
Rock outcrop.	

Table 13.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol and soil name	Forest land site preparation and planting considerations
726B: Sissabagama	Wetness
740D	
742B: Milaca	Wataasa
MIIaca	Surface stones
	Cobbly surface
742C:	
Milaca	Wetness
	Surface stones
İ	Cobbly surface
	Water erosion
742D:	
Milaca	Slope
	Wetness
	Surface stones Cobbly surface
	Water erosion
	water erosion
755A:	
Moppet	No major considerations
Fordum	Flooding
	Wetness
	Cobbly surface
	Potential poor tilth and compaction
771A:	
Lenroot	No major considerations
812B:	
Mora	Wetness
	Surface stones
	Cobbly surface
825A:	
Meehan	Wetness
İ	
896A:	
Wurtsmith	No major considerations
0003	
980A: Soderbeck	Webness
Soderbeck	Surface boulders
	Cobbly surface
	coppi, pariace
1070C:	
Fremstadt	Surface stones
	Cobbly surface
ļ	Water erosion
Cmag	Cobbler gunfage
Cress	Cobbly surface Water erosion
· ·	waret eropion
1070D:	
Fremstadt	Slope
İ	Surface stones
	Cobbly surface
	Water erosion

Table 13.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol and	Forest land site preparation and planting considerations
soil name	considerations
1070D:	
Cress	Slope Cobbly surface
	Water erosion
İ	
1080B:	Waterana
Spoonerhill	Wetness Cobbly surface
i	-
Spoonerhill, stony	
	Surface stones Cobbly surface
j	
Cress	Cobbly surface
2002.	
Udorthents, earthen dams	
2015.	
F105	
2050.	
Landfill	
3011A:	
Barronett	Wetness
	Potential poor tilth and compaction
3082E:	
Braham	Slope
	Water erosion
Shawano	Slope Water erosion
j	
3114A:	w.h
Saprists	Wetness
Aquents	Wetness
Aquepts	Wetness
3125A:	
Meehan	Wetness
3126A:	
Wurtsmith	No major considerations
3312B: Glendenning, very stony	Wetness
	Surface stones
	Cobbly surface
Glendenning	Wetness
oremeening	Cobbly surface
j	
3336A: Fenander	Wetness
r enaudet	nechess
3403A:	
Loxley	Wetness
Beseman	Wetness
i	
Dawson	Wetness

Table 13.--Forest Land Site Preparation and Planting Considerations--Continued

Map symbol and soil name	Forest land site preparation and planting considerations
BOII Hame	
3429B: Lara	Wetness
3429C: Lara	Wetness Water erosion
3446A: Newson	Wetness
3448B: Grettum	No major considerations
3448C: Grettum	Water erosion
3510B: Pomroy	Wetness Surface stones
Fremstadt	Surface stones
Fremstadt, stony	No major considerations
3510C: Pomroy	Wetness Surface stones Water erosion
Fremstadt	Water erosion
Fremstadt, stony	Surface stones Water erosion
3511A: Bushville	Wetness Cobbly surface
3516A: Slimlake	Cobbly surface
3625A: Lino	Wetness
3626A: Crex	No major considerations
3629B: Perida	Wetness
3636B: Plainbo	No major considerations
3636C: Plainbo	Water erosion
M-W. Miscellaneous water	
W. Water	

Table 14.--Forest Habitat Types

(Absence of an entry indicates that no forest habitat type is applicable. See text for descriptions of the forest habitat types listed in this table)

Map symbol and map unit name	Dominant habitat type	Codominant habitat types	Common habitat types 	 Region
3A Totagatic-Bowstring-Ausable complex, 0 to 2 percent slopes, frequently flooded	_ 		 	1
Makwa stony muck, 0 to 1 percent slopes, extremely stony, frequently flooded	 Lwmin 	 		1
22AComstock silt loam, 0 to 3 percent slopes	 ASaI 	 	ACaCi 	1
27AScott Lake sandy loam, 0 to 3 percent slopes	!	 		1
28B		AVDe, AAt 		1
28C		AVDe, AAt -		1
38ARosholt sandy loam, 0 to 2 percent slopes	 	AVDe, AAt		1
38B	 	AVDe, AAt		1
38C Rosholt sandy loam, 6 to 12 percent slopes	 	AVDe, AAt 		1
38D Rosholt sandy loam, 12 to 20 percent slopes	 	AVDe, AAt		1
Amery sandy loam, 12 to 25 percent slopes, very stony	İ	AVDe, AAt		1
Antigo silt loam, 1 to 6 percent slopes	 ACaCi 			 1
Antigo silt loam, 6 to 15 percent slopes	 ACaCi 	 	 	1

Table 14.--Forest Habitat Types--Continued

Map symbol and map unit name	 Dominant habitat type 	Codominant habitat types	Common habitat types 	 Region
63ACrystal Lake silt loam, 0 to 2 percent slopes	 ACaCi 		 	 1
63BCrystal Lake silt loam, 1 to 6 percent slopes	 ACaCi 			1
63C Crystal Lake silt loam, 6 to 12 percent slopes	 ACaCi 			1
64A Totagatic-Winterfield complex, 0 to 2 percent slopes, frequently flooded	 	Lfp, ArVRp 		 1
69C Keweenaw-Sayner-Vilas complex, 6 to 15 percent slopes, stony	 	PArVAm, AVDe	 	 1
69E Keweenaw-Sayner-Vilas complex, 15 to 45 percent slopes, stony	 	PArVAm, AVDe	 	 1
82B Cutaway-Branstad complex, 1 to 6 percent slopes	 AAt 			1
82C Cutaway-Branstad complex, 6 to 12 percent slopes	 AAt 			1
83A Smestad loamy fine sand, 0 to 3 percent slopes	 ArVRp 		 AAt 	1
85B Taylor loam, 2 to 6 percent slopes			 	1
85C Taylor loam, 6 to 12 percent slopes	 AAt 		 	1
86A Indus-Alango complex, 0 to 2 percent slopes	 	Lwmin, ASaI		1
89A Wildwood muck, 0 to 1 percent slopes	 Lwmin 		 	
96B Karlsborg sand, 1 to 6 percent slopes	 PArVAm 			 1
96C Karlsborg sand, 6 to 12 percent slopes	 PArVAm 		 	 1

Table 14.--Forest Habitat Types--Continued

Map symbol and map unit name	 Dominant habitat type 	Codominant habitat types	Common habitat types 	Region
96D Karlsborg sand, 12 to 20 percent slopes	 PArVAm 		 	1
100B Menahga sand, 0 to 6 percent slopes	 PQGCe 		PArVAm 	1
100C Menahga sand, 6 to 12 percent slopes	 PQGCe 		PArVAm	1
100D Menahga sand, 12 to 30 percent slopes	 PQGCe 		PArVAm	1
120B Kost fine sand, 0 to 6 percent slopes	 QAp 			1
127D Amery-Rosholt complex, 12 to 20 percent slopes, very stony	į	AVDe, AAt		1
127EAmery-Rosholt complex, 20 to 45 percent slopes, very stony	į	AVDe, AAt		1
151ABluffton loam, 0 to 2 percent slopes	 Lwmin 			
152AAlstad loam, 0 to 3 percent slopes			ACaCi 	1
154E Cushing fine sandy loam, 20 to 35 percent slopes				1
156B Magnor, very stony-Magnor complex, 0 to 4 percent slopes	 	ASaI, AAt		1
157B Freeon, very stony-Freeon complex, 2 to 6 percent slopes	 AAt 		ACaCi 	1
157C Freeon, very stony-Freeon complex, 6 to 12 percent slopes	 AAt 		ACaCi 	1
160A Oesterle sandy loam, 0 to 2 percent slopes			 AVDe 	1

Table 14.--Forest Habitat Types--Continued

Map symbol and map unit name	 Dominant habitat type 	 Codominant habitat types	 Common habitat types 	 Region
165B Elderon sandy loam, 2 to 6 percent slopes	AVDe	 	 	1 1
185B Tradelake-Taylor complex, 1 to 6 percent slopes	 AAt 	 		 1
185C Tradelake-Taylor complex, 6 to 12 percent slopes	 AAt 	 		 1
185D Tradelake-Taylor complex, 12 to 25 percent slopes	 AAt 	 	 	 1
185E Tradelake-Taylor complex, 25 to 35 percent slopes	 AAt 	 		1 1
189ASiren loam, 0 to 3 percent slopes	 ASaI 	 	 AAt 	 1
193A Minocqua muck, 0 to 2 percent slopes	 Lwmin 	 	 	
337A Plover fine sandy loam, 0 to 3 percent slopes	 ArVRp 	 	 	
368B Mahtomedi-Cress complex, 2 to 6 percent slopes	 	 PArVAm, AVDe 	 	1
368C Mahtomedi-Cress complex, 6 to 12 percent slopes	 	 PArVAm, AVDe 	 	1
368D Mahtomedi-Cress complex, 12 to 25 percent slopes	 	 PArVAm, AVDe 	 	1
368E Mahtomedi-Cress complex, 25 to 35 percent slopes	!	 PArVAm, AVDe 	 	1
380B	!	AVDe, AAt 	 	1
380CCress-Rosholt complex, 6 to 12 percent slopes		AVDe, AAt 	 	1
380D	; - - -	AVDe, AAt 	 	
383B Mahtomedi loamy sand, 0 to 6 percent slopes	PArVAm 	; 	PQGCe 	1

Table 14.--Forest Habitat Types--Continued

Map symbol and map unit name	 Dominant habitat type 	 Codominant habitat types 	 Common habitat types 	 Region
383C Mahtomedi loamy sand, 6 to 12 percent slopes	 PArVAm 	 	 PQGCe 	 1
383D Mahtomedi loamy sand, 12 to 30 percent slopes	1	 	 PQGCe 	 1
392CRockmarsh-Dairyland-Makwa, seeped, complex, 2 to 20 percent slopes, very stony	i I	 ArVRp, AVDe 	 Lwmin 	 1
396B Friendship-Wurtsmith- Grayling complex, 0 to 6 percent slopes	 PQGCe 	 	PQGCe-Ap 	1
397A Perchlake loamy fine sand, 0 to 2 percent slopes	 ArVRp 	 	PArVAm 	
399BGrayling sand, 0 to 6 percent slopes	 PQGCe 	 	 PQGCe-Ap 	 1
399CGrayling sand, 6 to 12 percent slopes	 PQGCe 	 	PQGCe-Ap 	1
399DGrayling sand, 12 to 30 percent slopes	 PQGCe 	 	PQGCe-Ap 	1
406ALoxley mucky peat, 0 to 1 percent slopes	 Laorg 	 	 	
407ASeelyeville and Markey soils, 0 to 1 percent slopes	Lnorg 	 	 	
410ASeelyeville and Cathro soils, 0 to 1 percent slopes	Lnorg 	 	 	
419A	Lnorg 		 	
421A Dora, Markey, and Seelyeville soils, 0 to 1 percent slopes	į	 		
422A	 Lnorg 	 	 	
	I	I	I	I

Table 14.--Forest Habitat Types--Continued

Map symbol and map unit name	 Dominant habitat type 	Codominant habitat types	Common habitat types 	 Region
426B Emmert-Mahtomedi-Menahga complex, 2 to 6 percent slopes	 PArVAm 		 	1
426C Emmert-Mahtomedi-Menahga complex, 6 to 12 percent slopes	 PArVAm 		 	1
426D Emmert-Mahtomedi-Menahga complex, 12 to 30 percent slopes	 PArVAm 		 	1
430A Freya loamy fine sand, 0 to 3 percent slopes	1		 	1
439B Graycalm-Menahga complex, 0 to 6 percent slopes	 PArVAm 		 PQGCe 	1
439C Graycalm-Menahga complex, 6 to 12 percent slopes	 PArVAm 		PQGCe	1
439DGraycalm-Menahga complex, 12 to 30 percent slopes	 PArVAm 		PQGCe 	1
442C Haugen, very stony- Greenwood complex, 0 to 15 percent slopes	į	AAt, AVDe	Lnorg 	1
443D Amery, very stony-Greenwood complex, 0 to 35 percent slopes	!	AVDe, AAt	 Lnorg 	
459A Loxley, Daisybay, and Dawson soils, 0 to 1 percent slopes	 Lnorg 			
461A Bowstring muck, 0 to 1 percent slopes, frequently flooded	į -			
465A Newson-Meehan complex, 0 to 3 percent slopes	!	Lwmin, ArVrp	 	1
469E Bigisland-Milaca complex, 15 to 45 percent slopes, very stony	 	PArVAm, AAt	 	1

Table 14.--Forest Habitat Types--Continued

map unit name habitat types types 471B	
Dairyland-Emmert complex, 0 to 6 percent slopes, very stony 471C	Region
Dairyland-Emmert complex, 6 to 15 percent slopes, very stony 472A	1
Rockmarsh-Clemens complex, 0 to 2 percent slopes, very stony, frequently flooded 473A	1
Dairyland-Skog complex, 0 to 3 percent slopes, very stony, rarely flooded 484A	1
Greenwood and Beseman soils, 0 to 1 percent slopes 485C	1
Lupton and Tawas soils, seeped, 2 to 15 percent slopes 495B	
Karlsborg-Grettum-Perida complex, 1 to 6 percent slopes 495C	
Karlsborg-Grettum-Perida complex, 6 to 12 percent	1
slopes	1
495D	1
496BPArVAm Karlsborg loamy sand, 1 to	1
496CPArVAm Karlsborg loamy sand, 6 to	1
496D	1
497A ArVRp, PArVAm Meenon loamy sand, 0 to 3 percent slopes	1

Table 14.--Forest Habitat Types--Continued

Map symbol and map unit name	 Dominant habitat type 	Codominant habitat types 	 Common habitat types 	 Region
521A Dody muck, 0 to 2 percent slopes	 Lwmin 		 	 1
523A Nokasippi muck, 0 to 1 percent slopes	 Lwmin 	 		
529B Perida sand, 0 to 4 percent slopes	1			 1
531AStengel loamy sand, 0 to 3 percent slopes	 	ArVRp, PArVAm		 1
542B Haugen, very stony-Haugen complex, 2 to 6 percent slopes	 	 AAt, AVDe 		 1
542C Haugen, very stony-Haugen complex, 6 to 12 percent slopes	 	 AAt, AVDe 		 1
544F Menahga and Mahtomedi soils, 30 to 45 percent slopes	 PArVAm 		 PQGCe 	 1
553B Branstad fine sandy loam, 2 to 6 percent slopes	 ACaCi 	 		1 1
553C Branstad fine sandy loam, 6 to 12 percent slopes	 ACaCi 	 	 - 	 1
553D Branstad fine sandy loam, 12 to 20 percent slopes	 ACaCi 	 		 1
555AFordum silt loam, 0 to 2 percent slopes, frequently flooded	į			
557BShawano fine sand, 0 to 6 percent slopes	 	QAp, PQGCe-Ap		 1
557CShawano fine sand, 6 to 12 percent slopes	 	QAp, PQGCe-Ap		 1
557DShawano fine sand, 12 to 30 percent slopes	!	 QAp, PQGCe-Ap 	 	 1

Table 14.--Forest Habitat Types--Continued

Map symbol and map unit name	 Dominant habitat type 	Codominant habitat types	Common habitat types 	 Region
586AChelmo sandy loam, 0 to 2 percent slopes	 Lwmin 			
600A. Haplosaprists and Psammaquents, 0 to 2 percent slopes	 	 		
615B Cress sandy loam, 0 to 6 percent slopes	 AVDe 	 	 	1
615C Cress sandy loam, 6 to 12 percent slopes	AVDe 	 	 	1
615DCress sandy loam, 12 to 30 percent slopes	AVDe	 	 	1
620C Lundeen-Haustrup-Rock outcrop complex, 2 to 12 percent slopes, very stony	i I	 		1
621A Bjorkland peat, 0 to 2 percent slopes	Lwmin 			
623ACapitola muck, 0 to 2 percent slopes, very stony	į	 		
624AOssmer silt loam, 0 to 3 percent slopes	 ASaI 	 	 AAt 	1
631AGiese muck, 0 to 1 percent slopes, very stony	 Lwmin 	 	 	
632AAftad fine sandy loam, 0 to 2 percent slopes	1	 	ACaCi	1
632BAftad fine sandy loam, 2 to 6 percent slopes	1		ACaCi	1
632C Aftad fine sandy loam, 6 to 12 percent slopes	1		ACaCi 	1
634C Drylanding-Beartree complex, 0 to 12 percent slopes, rocky	PArVAm 	 	Lwmin Lwmin 	1

Table 14.--Forest Habitat Types--Continued

Map symbol and map unit name	 Dominant habitat type 	Codominant habitat types	Common habitat types 	 Region
635C Drylanding-Beartree complex, 0 to 12 percent slopes, rocky, rarely flooded	 PArVAm 	 - - - - -	 Lwmin 	 1
648BSconsin silt loam, 1 to 6 percent slopes	 ACaCi 	 		 1
669D Fremstadt, stony-Pomroy complex, 15 to 30 percent slopes	 PArVAm 	 		 1
671B Spoonerhill, stony- Spoonerhill complex, 2 to 6 percent slopes	 AVDe 	 	 PArVAm 	 1
706A Winterfield-Totagatic complex, 0 to 2 percent slopes, frequently flooded	 	 ASaI, Lfp 		 1
715A Mora silt loam, 0 to 3 percent slopes, very stony	į	 	 AC1 	 2
717B Milaca silt loam, 3 to 6 percent slopes, very stony	į		 AAs 	 2
717C Milaca silt loam, 6 to 12 percent slopes, very stony	į		 AAs 	 2
720F Haustrup-Lundeen-Rock outcrop complex, 12 to 65 percent slopes, very stony	 	 		 1
726B Sissabagama loamy sand, 0 to 6 percent slopes	 	PArVAm, AVDe		 1
742B Milaca sandy loam, 2 to 6 percent slopes, very stony	İ	 	 AC1 	 2
742C Milaca sandy loam, 6 to 12 percent slopes, very stony	į	 	 AC1 	 2
742D Milaca sandy loam, 12 to 20 percent slopes, very stony	į	 	 AC1 	 2
Moppet, occasionally flooded-Fordum, frequently flooded, complex, 0 to 3 percent slopes	į	 	 ASaI 	

Table 14.--Forest Habitat Types--Continued

Map symbol and map unit name	 Dominant habitat type 	 Codominant habitat types	 Common habitat types 	 Region
771ALenroot loamy sand, 0 to 3 percent slopes	 PArVAm 	 	 	 1
812B Mora sandy loam, 0 to 4 percent slopes, very stony	į	 	 AVC1 	 2
825A Meehan sand, 0 to 2 percent slopes		 		 1
896A Wurtsmith sand, 0 to 3 percent slopes	 PQGCe 	 		 1
980ASoderbeck very gravelly loam, 0 to 2 percent slopes, very stony, rarely flooded	i I			1
1070C Fremstadt, stony-Cress complex, 6 to 15 percent slopes	 	 AVDe, PArVAm 		 1
1070D Fremstadt, stony-Cress complex, 15 to 30 percent slopes	 	 AVDe, PArVAm 		 1
1080B	 	 AVDe, PArVAm 		1
2002. Udorthents, earthen dams	 	 	 	
2015. Pits	 	 	 	
2050. Landfill	 	 	 	
3011A Barronett silt loam, 0 to 2 percent slopes	!	 		
3082E Braham-Shawano complex, 12 to 35 percent slopes	 AAt 	 		1 1
3114A. Saprists, Aquents, and Aquepts, 0 to 1 percent slopes, ponded, flooded	 	 		
3125A Meehan loamy sand, 0 to 2 percent slopes	ArVRp 	 	PArVAm 	1

Table 14.--Forest Habitat Types--Continued

Map symbol and map unit name	 Dominant habitat type 	Codominant habitat types	 Common habitat types 	 Region
3126A Wurtsmith loamy sand, 0 to 3 percent slopes	 PArVAm 	 		1 1
3312BGlendenning, very stony-Glendenning complex, 0 to 4 percent slopes	 ArVRp 	 	 AVDe 	 1
3336A Fenander fine sandy loam, 0 to 2 percent slopes	 Lwmin 	 		
3403A Loxley, Beseman, and Dawson soils, 0 to 1 percent slopes		 		 1
3429BLara loamy fine sand, 0 to 6 percent slopes	 PArVAm 	 		 1
3429C Lara loamy fine sand, 6 to 12 percent slopes	 PArVAm 	 		 1
3446A Newson muck, 0 to 2 percent slopes		 		 1
3448BGrettum loamy sand, 0 to 6 percent slopes	 PArVAm 	 		 1
3448CGrettum loamy sand, 6 to 12 percent slopes	!	 		 1
3510B Pomroy-Fremstadt-Fremstadt, stony, complex, 1 to 6 percent slopes	 PArVAm 	 		 1
3510C Pomroy-Fremstadt-Fremstadt, stony, complex, 6 to 15 percent slopes		 		 1
3511ABushville loamy sand, 0 to 3 percent slopes	: -	 	 PArVAm 	 1
3516ASlimlake sandy loam, 0 to 3 percent slopes	!	PArVAm, AVDe		 1
3625A Lino loamy fine sand, 0 to 2 percent slopes	 ArVRp 		 PArVAm 	 1
3626ACrex loamy fine sand, 0 to 3 percent slopes		 	 PArVAm-Ap 	 1

Table 14.--Forest Habitat Types--Continued

Map symbol and	Dominant	Codominant	Common	Region
map unit name	habitat	habitat	habitat types	İ
	type	types		
3629B	 - PArVAm			 1
Perida loamy sand, 0 to 4 percent slopes				
3636B	- PQGCe			1
Plainbo sand, 2 to 6 percent slopes				
3636C	 - PQGCe			1
Plainbo sand, 6 to 12 percent slopes				
M-W.				
Miscellaneous water		į į		
W.				
w. Water				
	i	i		i

Table 15a.--Recreational Development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

cing class and niting features relimited spth to saturated zone coding onding relimited spth to saturated zone coding ontent of organic matter onding relimited spth to saturated zone coding ontent of organic matter onding relimited spth to saturated zone coding onding relimited spth to saturated zone coding onding	Value 	Rating class and limiting features	Value 1.00 0.40 1.00 1.00 1.00 1.00 1.00	saturated zone Flooding Ponding Very limited Depth to saturated zone Content of organic matter Flooding Ponding Very limited Depth to saturated zone Flooding Ponding	Value
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organic matter onding r limited epth to saturated zone cooding onding	 1.00 1.00 1.00	Ponding Flooding	0.40 1.00 	Flooding Ponding Very limited Depth to saturated zone Flooding Ponding	1.00 1.00 1.00
onding r limited epth to saturated zone cooding onding	 1.00 1.00	Flooding Very limited Depth to saturated zone Ponding Flooding	0.40 1.00 	Ponding Very limited Depth to saturated zone Flooding Ponding	1.00 1.00 1.00
r limited epth to saturated zone cooding onding	 1.00 1.00	 Very limited Depth to saturated zone Ponding Flooding	 1.00 1.00	 Very limited Depth to saturated zone Flooding Ponding	1.00
epth to saturated zone coding onding r limited	1.00	Depth to saturated zone Ponding Flooding	1.00	Depth to saturated zone Flooding Ponding	1.00
epth to saturated zone coding onding r limited	1.00	Depth to saturated zone Ponding Flooding	1.00	Depth to saturated zone Flooding Ponding	1.00
ooding onding	!	Ponding Flooding 	!	Flooding Ponding 	
onding	!	Flooding 	!	Ponding	
limited	1.00		0.40	 	1.00
	 	 Verv limited		 	
	İ	Very limited	!		
pth to				Very limited	
	1.00	Depth to	1.00	Depth to	1.00
saturated zone		saturated zone		saturated zone	
ooding	1.00	Ponding	1.00	Flooding	1.00
onding	1.00	Too stony	0.50	Ponding	1.00
oo stony	0.50	Flooding	0.40	Content of large	0.99
ontent of large	0.01	Content of large	0.01		0.50
stones		stones		Too stony	
	İ	 	İ	Irrana Admita A	į
limited	1 00	Very limited	1 00	Very limited	1 00
saturated zone	1.00	saturated zone	1.00	saturated zone	1.00
	į	į	į	į	į
21-16-2	1	 	1	 	
limited		NOT limited		· ·	0.04
	0.60		0.60		0.60
_	0.50				0 50
_				-	0.50
-	10.39	: -	10.19	-	0.50
acurated zone		saturated zone		: -	0.39
	I	 	I	· ·	0.05
9	pth to aturated zone limited what limited stricted ermeability o stony pth to aturated zone	aturated zone	aturated zone saturated zone limited Not limited what limited Somewhat limited stricted 0.60 Restricted ermeability permeability o stony 0.50 Too stony pth to 0.39 Depth to	aturated zone saturated zone	aturated zone saturated zone saturated zone somewhat limited somewhat limited stricted st

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		 Playgrounds 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						
28B: Haugen	Somewhat limited Restricted permeability Depth to saturated zone	 0.60 0.39	Somewhat limited Restricted permeability Depth to saturated zone	 0.60 0.19	permeability	 0.60 0.50 0.39
	 		 	 	Gravel content Content of large stones	0.05 0.03
Rosholt, very stony	Somewhat limited Too stony	 0.50 	Somewhat limited Too stony	 0.50 	Somewhat limited Slope Too stony Gravel content Content of large stones	0.50 0.50 0.03 0.01
Rosholt	Not limited 		Not limited 	 	Somewhat limited Slope Gravel content	0.50
28C:	 				 	
Haugen, very stony	Somewhat limited Restricted permeability Too stony	0.60	Somewhat limited Restricted permeability Too stony	 0.60 0.50	Restricted	 1.00 0.60
	Depth to saturated zone Slope	0.39	Depth to saturated zone Slope	0.19 0.04	Too stony Depth to	0.50 0.39 0.05
Haugen	Somewhat limited Restricted permeability Depth to saturated zone Slope	 0.60 0.39 0.04	Somewhat limited Restricted permeability Depth to saturated zone Slope	 0.60 0.19 0.04		 1.00 0.60 0.39 0.05 0.03
Rosholt, very stony	 Somewhat limited Too stony Slope 	 0.50 0.04 	 Somewhat limited Too stony Slope 	 0.50 0.04 		 1.00 0.50 0.03 0.01
Rosholt	 Somewhat limited Slope 	 0.04 	 Somewhat limited Slope 	 0.04 	 Very limited Slope Gravel content 	 1.00 0.04
38A: Rosholt	 Not limited 	 	 Not limited 	 	 Somewhat limited Gravel content 	0.04
38B: Rosholt	 Not limited 	 	 Not limited 	 	 Somewhat limited Slope Gravel content	0.50

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		 Picnic areas 		 Playgrounds 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
38C: Rosholt	 Somewhat limited Slope 	 0.04	 Somewhat limited Slope 	 0.04	 Very limited Slope Gravel content	 1.00 0.04
38D: Rosholt	 Very limited Slope 	 1.00	 Very limited Slope 	 1.00	 Very limited Slope Gravel content	1.00
42D: Amery	 Very limited Slope Too stony Restricted permeability	 1.00 0.50 0.21 	 Very limited Slope Too stony Restricted permeability	 1.00 0.50 0.21 	:	 1.00 0.50 0.21 0.05 0.03
43B: Antigo	 Not limited 	 	 Not limited 	 	 Somewhat limited Slope	0.50
43C: Antigo	 Somewhat limited Slope 	0.37	 Somewhat limited Slope	0.37	 Very limited Slope	1.00
63A: Crystal Lake	 Somewhat limited Depth to saturated zone Restricted permeability	 0.39 0.21	 Somewhat limited Restricted permeability Depth to saturated zone	 0.21 0.19	Somewhat limited Depth to saturated zone Restricted permeability	 0.39 0.21
63B: Crystal Lake	 Somewhat limited Depth to saturated zone Restricted permeability	 0.39 0.21 	 Somewhat limited Restricted permeability Depth to saturated zone	 0.21 0.19 	 Somewhat limited Slope Depth to saturated zone Restricted permeability	 0.50 0.39 0.21
63C: Crystal Lake	 Somewhat limited Depth to saturated zone Restricted permeability Slope	 0.39 0.21 0.04	 Somewhat limited Restricted permeability Depth to saturated zone Slope	 0.21 0.19 0.04	 Very limited Slope Depth to saturated zone Restricted permeability	 1.00 0.39 0.21
64A: Totagatic	 Very limited Depth to saturated zone Flooding Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Ponding Flooding	 1.00 1.00 0.40	 Very limited Depth to saturated zone Flooding Ponding	 1.00 1.00 1.00

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
64A: Winterfield	Very limited		 Very limited	 	 Very limited	
	Depth to saturated zone Flooding Too sandy	1.00 1.00 0.79	Depth to saturated zone Too sandy	1	Depth to saturated zone Flooding	1.00 1.00 0.79
69C: Keweenaw	 Somewhat limited Too sandy	 0.76	 Somewhat limited Too sandy	 0.76	Very limited	 1.00
	Slope	0.16		0.16	· -	0.76
Sayner	 Somewhat limited Too sandy Slope 	 0.87 0.16 	 Somewhat limited Too sandy Slope 	 0.87 0.16 	· -	 1.00 0.87 0.05
Vilas	 Somewhat limited Too sandy Slope	 0.87 0.16	·	 0.87 0.16		 1.00 0.87 0.04
69E: Keweenaw	 Very limited Slope Too sandy 	 1.00 0.76	<u>-</u>	 1.00 0.76	· -	 1.00 0.76 0.01
Sayner	 Very limited Slope Too sandy 	 1.00 0.87 	<u>-</u>	 1.00 0.87 	· -	 1.00 0.87 0.05
Vilas	 Very limited Slope Too sandy	 1.00 0.87	 Very limited Slope Too sandy	 1.00 0.87	 Very limited Slope Too sandy Gravel content	 1.00 0.87 0.04
82B: Cutaway	 Somewhat limited Too sandy Depth to saturated zone	0.72	 Somewhat limited Too sandy Depth to saturated zone	 0.72 0.19 	:	0.72
Branstad	Somewhat limited Depth to saturated zone	 0.39 	Somewhat limited Depth to saturated zone	 0.19 		0.39

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
82C:			l		l	
Cutaway	 Somewhat limited		 Somewhat limited	i	 Very limited	İ
•	Too sandy	0.72	Too sandy	0.72	Slope	1.00
	Depth to	0.39	Depth to	0.19	Too sandy	0.72
	saturated zone		saturated zone		Depth to	0.39
	Slope	0.04	Slope	0.04	saturated zone	
Branstad	 Somewhat limited		 Somewhat limited		 Very limited	
	Depth to	0.39	Depth to	0.19	Slope	1.00
	saturated zone		saturated zone		Depth to	0.39
	Slope	0.04	Slope	0.04	saturated zone	
83A:	 		 		 	
Smestad	Very limited		Very limited		Very limited	
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Restricted	1.00	Restricted	1.00	Restricted	1.00
	permeability		permeability		permeability	
	Too sandy	0.79 	Too sandy 	0.79 	Too sandy	0.79
85B:		İ				1
Taylor	Very limited		Very limited		Very limited	
	Depth to saturated zone	1.00	Restricted	1.00	Depth to saturated zone	1.00
	Restricted	1.00	permeability Depth to	0.99	Restricted	1.00
	permeability	1	saturated zone	0.55	permeability	1
					Slope	0.50
85C:						
Taylor	 Very limited	I	 Very limited		 Very limited	l
layioi	Depth to	1.00	Restricted	1.00	Depth to	1.00
	saturated zone		permeability		saturated zone	
	Restricted	1.00	Depth to	0.99	Slope	1.00
	permeability	į	saturated zone	į	Restricted	1.00
	Slope	0.04	Slope	0.04	permeability	
86A:	 		 		 	
Indus	 Very limited	į	 Very limited	İ	Very limited	İ
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Restricted	1.00	Restricted	1.00	Restricted	1.00
	permeability Ponding	1.00	permeability Ponding	1.00	permeability Ponding	1.00
		İ				1
Alango	: -		Very limited		Very limited	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to	1.00
	Restricted	1.00	Restricted	1.00	saturated zone Restricted	1.00
	permeability		permeability		permeability	
903.						
89A: Wildwood	 Very limited		 Very limited		 Very limited	
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Content of	1.00	Content of	1.00	Content of	1.00
	organic matter		organic matter		organic matter	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
	Restricted	0.98	Restricted	0.98	Restricted	0.98
	permeability		permeability	1	permeability	1

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas 		Picnic areas 		Playgrounds 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
96B:	 		 		 	
Karlsborg	 Very limited		 Very limited		 Very limited	1
5	Too sandy	1.00	Too sandy	1.00	Too sandy	1.00
	Depth to	0.98	Restricted	0.98	Depth to	0.98
	saturated zone	j	permeability	į	saturated zone	j
	Restricted	0.98	Depth to	0.75	Restricted	0.98
	permeability		saturated zone		permeability	
	 		 		Slope 	0.50
96C:		į		į		į
Karlsborg	Very limited		Very limited	1	Very limited	
	Too sandy	1.00	Too sandy	1.00	Slope	1.00
	Depth to	0.98	Restricted	0.98	Too sandy	1.00
	saturated zone	10.00	permeability Depth to		Depth to	0.98
	Restricted permeability	0.98	saturated zone	0.75	saturated zone	0.98
	Slope	0.04	Slope	0.04	permeability	0.98
	į		_	į	į	į
96D: Karlsborg	 Very limited		 Very limited		 Very limited	
Railsborg	Too sandy	1.00	Too sandy	1.00	Slope	1.00
	Slope	1.00	Slope	1.00	Too sandy	1.00
	Depth to	0.98	Restricted	0.98	Depth to	0.98
	saturated zone	i	permeability	i	saturated zone	i
	Restricted	0.98	Depth to	0.75	Restricted	0.98
	permeability		saturated zone		permeability	
100B:	[
Menahga	Very limited	İ	Very limited	į	Very limited	i
	Too sandy	1.00	Too sandy	1.00	Too sandy	1.00
					Slope	0.12
100C:	 		 		 	
Menahga	Somewhat limited	j	Somewhat limited	į	Very limited	j
	Slope	0.04	Slope	0.04	Slope	1.00
100D:	 		 		 	
Menahga	 Verv limited		 Very limited		 Very limited	i
3.	Slope	1.00	Slope	1.00	Slope	1.00
	j	j	İ	į	į	į
120B: Kost	 Very limited		 Verv limited		 Very limited	
KOBC	Too sandy	1.00	Too sandy	1.00	Too sandy	1.00
					Slope	0.12
1055						
127D:						
Amery	Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
	Too stony	0.50	Too stony	0.50	Too stony	0.50
	Restricted	0.21	Restricted	0.30	Restricted	0.21
	permeability		permeability		permeability	
		i		i	Gravel content	0.05
	İ	İ	İ	İ	Content of large	
	 		[]		stones	1
Rosholt	 Very limited		 Very limited		 Very limited	1
	Slope	1.00	Slope	1.00	Slope	1.00
	Too stony	0.50	Too stony	0.50	Too stony	0.50
				[Gravel content	0.03
				[Content of large	0.01
		1	I .	1	stones	1

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas 		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
127E:	 	İ	 	İ	 	İ
Amery	 Very limited		 Very limited	i	 Very limited	i
•	Slope	1.00	Slope	1.00		1.00
	Too stony	0.50	Too stony	0.50	Too stony	0.50
	Restricted	0.21	Restricted	0.21	Restricted	0.21
	permeability		permeability		permeability	!
					Gravel content	0.05
	 		 		Content of large stones	0.03
Rosholt	 Very limited		 Very limited		 Very limited	
	Slope	1.00	Slope	1.00	Slope	1.00
	Too stony	0.50	Too stony	0.50	Too stony	0.50
	!				Gravel content	0.03
	 				Content of large stones	0.01
151A:	 		 		[]	
	 Very limited	i	 Very limited	i	 Very limited	i
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Ponding 	1.00	Ponding 	1.00	Ponding 	1.00
152A: Alstad	 Very limited	į	 Very limited	į	 Very limited	į
AISCAG	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
154E:	 		 		 	
Cushing	: -	1	Very limited	1	Very limited	!
	Slope	1.00	Slope	1.00		1.00
	Too sandy 	0.01	Too sandy 	0.01	Too sandy	0.01
156B: Magnor, very stony	 Very limited		 Very limited		 Very limited	
	Depth to	1.00	Depth to	1.00	· -	1.00
	saturated zone	İ	saturated zone	ĺ	saturated zone	İ
	Too stony	0.50	Too stony	0.50	Too stony	0.50
	Restricted	0.43	Restricted	0.43	!	0.43
	permeability		permeability		permeability	
					Content of large stones	
Magnor	 Very limited		 Very limited		 Very limited	
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Restricted	0.43	Restricted	0.43	Restricted	0.43
	permeability		permeability 		permeability 	
157B:				ļ		
Freeon, very stony			Very limited		Very limited	1 00
	Depth to saturated zone	1.00	Depth to	1.00	Depth to saturated zone	1.00
	Too stony	0.50	saturated zone Too stony	0.50	saturated zone Slope	0.50
	Restricted	0.43	Restricted	0.43	Too stony	0.50
	permeability		permeability		Restricted	0.43

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		 Playgrounds 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
157B: Freeon	 Very limited Depth to saturated zone Restricted permeability	 1.00 0.43 	 Very limited Depth to saturated zone Restricted permeability	 1.00 0.43 	Very limited Depth to saturated zone Slope Restricted permeability Content of large stones	 1.00 0.50 0.43 0.01
157C: Freeon, very stony	Very limited Depth to saturated zone Too stony Restricted permeability Slope	 1.00 0.50 0.43 0.04	Very limited Depth to saturated zone Too stony Restricted permeability Slope	 1.00 0.50 0.43 0.04	Very limited Depth to saturated zone Slope Too stony Restricted permeability	 1.00 1.00 0.50 0.43
Freeon	 Very limited Depth to saturated zone Restricted permeability Slope	 1.00 0.43 0.04	 Very limited Depth to saturated zone Restricted permeability Slope	 1.00 0.43 0.04		 1.00 1.00 0.43 0.01
160A: Oesterle	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00
165B: Elderon	 Not limited 	 	 Not limited 	 	 Somewhat limited Slope Content of large stones	 0.50 0.01
185B: Tradelake	 Somewhat limited Depth to saturated zone Restricted permeability	 0.98 0.98	 Somewhat limited Restricted permeability Depth to saturated zone	 0.98 0.75	 Somewhat limited Depth to saturated zone Restricted permeability Slope	 0.98 0.98 0.50
Taylor	 Very limited Depth to saturated zone Restricted permeability	 1.00 1.00 	 Restricted permeability Depth to saturated zone	 1.00 0.99 	Very limited Depth to saturated zone Restricted permeability Slope	 1.00 1.00 0.50
185C: Tradelake	Somewhat limited Depth to saturated zone Restricted permeability Slope	 0.98 0.98 0.04	Somewhat limited Restricted permeability Depth to saturated zone Slope	 0.98 0.75 0.04	Very limited Slope Depth to saturated zone Restricted permeability	 1.00 0.98 0.98

Table 15a.--Recreational Development--Continued

Map symbol and soil name	 Camp areas 		 Picnic areas 		 Playgrounds 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
185C:	 Very limited		 Very limited		 Very limited	
	Depth to saturated zone	1.00	Restricted permeability	1.00	Depth to saturated zone	1.00
	Restricted permeability Slope	1.00 0.04	Depth to saturated zone Slope	0.99 0.04	Slope Restricted permeability	1.00 1.00
185D:	 		 		 	
Tradelake	 Very limited Slope	1.00	 Very limited Slope	1.00	Very limited Slope	1.00
	Restricted permeability	0.98 	Restricted permeability	0.98 	Restricted permeability	0.98
	Depth to saturated zone	0.39	Depth to saturated zone	0.19	Depth to saturated zone	0.39
Taylor	 Very limited Depth to saturated zone	 1.00	 Very limited Restricted permeability	 1.00	 Very limited Depth to saturated zone	1.00
	Restricted permeability Slope	1.00 1.00	Slope Depth to saturated zone	1.00	Slope Restricted permeability	1.00
1057						
185E: Tradelake	 Very limited		 Very limited		 Very limited	
	Slope	1.00	Slope	1.00		1.00
	Restricted permeability	0.98 	Restricted permeability	0.98 	Restricted permeability	0.98
	Depth to saturated zone	0.39	Depth to saturated zone	0.19	Depth to saturated zone	0.39
Taylor	 Very limited Depth to	 1.00	 Very limited Slope	 1.00	 Very limited Depth to	1.00
	saturated zone	İ	Restricted	1.00	saturated zone	
	Slope Restricted	1.00	permeability Depth to	 0.99	Slope Restricted	1.00
	permeability		saturated zone		permeability	
189A: Siren	 Very limited		 Very limited		 Very limited	
SITell	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Restricted permeability	0.43	Restricted permeability	0.43	Restricted permeability	0.43
	 		 		Gravel content	0.39
193A:	 	į	1	į	 	į
Minocqua	Very limited Depth to	 1.00	Very limited Depth to	1.00	Very limited Depth to	1.00
	saturated zone Ponding	1.00	saturated zone Ponding	1.00	saturated zone Ponding	1.00
337A:	 		 		 	
Plover	<u>-</u>		Very limited		Very limited	
	Depth to saturated zone	1.00 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00
	Restricted permeability	0.60	Restricted permeability	0.60	Restricted permeability	0.60

Table 15a.--Recreational Development--Continued

Map symbol and soil name	 Camp areas 		 Picnic areas 		 Playgrounds 	
	Rating class and	Value	Rating class and	Value		Value
	limiting reatures	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>
368B: Mahtomedi	 Somewhat limited Too sandy 	 0.72 	 Somewhat limited Too sandy 	 0.72 	 Somewhat limited Too sandy Slope Gravel content	 0.72 0.50 0.04
Cress	 Not limited		 Not limited	 	 Somewhat limited Slope	0.50
368C:	 		 -		 	
Mahtomedi	 Somewhat limited Too sandy Slope	 0.72 0.04	 Somewhat limited Too sandy Slope	 0.72 0.04	-	 1.00 0.72 0.04
Cress	 Somewhat limited Slope	0.04	 Somewhat limited Slope	 0.04	 Very limited Slope	 1.00
368D:		İ				i
Mahtomedi	Very limited Slope Too sandy	 1.00 0.72 		 1.00 0.72 	-	 1.00 0.72 0.04
Cress	 Very limited Slope 	1.00	 Very limited Slope 	 1.00	 Very limited Slope 	 1.00
368E: Mahtomedi	 Very limited Slope Too sandy	 1.00 0.72		 1.00 0.72	-	 1.00 0.72 0.04
Cress	 Very limited Slope 	1.00	 Very limited Slope	 1.00	 Very limited Slope 	 1.00
380B:	 					i
Cress	Not limited	<u> </u> 	Not limited	 	Somewhat limited Slope	0.50
Rosholt	 Not limited 		 Not limited 	 	Somewhat limited Slope Gravel content	0.50
380C:	 		 	 	 	i
Cress	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	 Very limited Slope	1.00
Rosholt	 Somewhat limited Slope 	0.04	 Somewhat limited Slope 	 0.04 	 Very limited Slope Gravel content	 1.00 0.04
380D: Cress	 Very limited Slope	1.00	 Very limited Slope	 1.00	 Very limited Slope	 1.00
Rosholt	 Very limited Slope 	1.00	 Very limited Slope	1.00	 Very limited Slope Gravel content	 1.00 0.04

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		 Playgrounds 	
	Rating class and limiting features	Value	Rating class and limiting features		Rating class and limiting features	Value
383B: Mahtomedi	 Somewhat limited Too sandy 	 0.72 	 Somewhat limited Too sandy 	 0.72 	 Somewhat limited Too sandy Slope Gravel content	 0.72 0.12 0.04
383C: Mahtomedi	 Somewhat limited Too sandy Slope 	 0.72 0.04 	· -	 0.72 0.04 	· -	 1.00 0.72 0.04
383D: Mahtomedi	 Very limited Slope Too sandy 	 1.00 0.72 		 1.00 0.72 	· -	 1.00 0.72 0.04
392C: Rockmarsh	Very limited Depth to saturated zone Too stony Slope Content of large stones	1.00 0.50 0.37	Depth to saturated zone Too stony Slope	1.00 0.50 0.37	stones	 1.00 1.00 1.00 0.50
Dairyland	Somewhat limited Too stony Depth to saturated zone Slope	 0.50 0.39 0.37	Slope Depth to	 0.50 0.37 0.19	Too stony	 1.00 0.50 0.39
Makwa	 Very limited Depth to saturated zone Too stony Content of large stones	1.00 0.50	saturated zone Too stony	1.00 0.50	Content of large	 1.00 1.00 0.99 0.50
396B: Friendship	 Verv limited	 	 Very limited	 	 Very limited	
Wurtsmith	Too sandy	1.00 1.00 0.39	Too sandy Very limited Too sandy Depth to saturated zone	1.00 1.00 0.19	Too sandy Very limited Too sandy	1.00 1.00 0.39 0.06
Grayling	 Very limited Too sandy 	 1.00 	 Very limited Too sandy 	 1.00 	 Very limited Too sandy Slope	 1.00 0.12
397A: Perchlake	 Very limited Depth to saturated zone Too sandy	 1.00 0.96	 Very limited Depth to saturated zone Too sandy	 1.00 0.96	 Very limited Depth to saturated zone Too sandy	 1.00 0.96

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
399B: Grayling	 Very limited Too sandy 	 1.00	 Very limited Too sandy 	 1.00	 Very limited Too sandy Slope	 1.00 0.12
399C: Grayling	 Very limited Too sandy Slope	 1.00 0.04	 Very limited Too sandy Slope	 1.00 0.04	 Very limited Slope Too sandy	 1.00 1.00
399D: Grayling	 Very limited Too sandy Slope	 1.00 1.00	 Very limited Too sandy Slope	 1.00 1.00	: -	 1.00 1.00
406A: Loxley	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	saturated zone Content of organic matter	 1.00 1.00 1.00
407A: Seelyeville	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00
Markey	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00
410A: Seelyeville	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00
Cathro	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00
419A: Seelyeville	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas 		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
419A:	 	 	 	 	 	
Cathro	Very limited Depth to	1.00	 Very limited Depth to	1.00	 Very limited Depth to	1.00
	saturated zone Content of organic matter	1.00	saturated zone Content of organic matter	1.00	saturated zone Content of organic matter	1.00
	Ponding	1.00	Ponding	1.00	Ponding	1.00
Markey	 Very limited Depth to	 1.00	 Very limited Depth to	 1.00	 Very limited Depth to	1.00
	saturated zone Content of	1.00	saturated zone Content of	1.00	saturated zone Content of	1.00
	organic matter Ponding	1.00	organic matter Ponding	1.00	organic matter Ponding	1.00
421A:						İ
Dora	Very limited	1.00	Very limited	1.00	Very limited	1 00
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Content of organic matter	1.00	Content of organic matter	1.00	Content of organic matter	1.00
	Ponding Restricted	1.00 0.96	Ponding Restricted	1.00	Ponding Restricted	1.00
	permeability		permeability		permeability	
Markey			 Very limited	ļ	Very limited	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Content of	1.00	Content of	1.00	Content of	1.00
	organic matter		organic matter		organic matter	
	Ponding 	1.00 	Ponding 	1.00	Ponding 	1.00
Seelyeville	: -		Very limited		Very limited	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Content of	1.00	Content of	1.00	Content of	1.00
	organic matter Ponding	1.00	organic matter Ponding	1.00	organic matter Ponding	1.00
422A:						
Seelyeville			Very limited		Very limited	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Content of	1.00	Content of	1.00	'	1.00
	organic matter Ponding	1.00	organic matter Ponding	1.00	organic matter Ponding	1.00
Cathro	 Very limited Depth to	 1.00	 Very limited Depth to	 1.00	 Very limited Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Content of organic matter	1.00	Content of organic matter	1.00	Content of organic matter	1.00
	Ponding	1.00	Ponding	1.00	Ponding	1.00
Rondeau	· -		 Very limited		 Very limited	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Content of	1.00	Content of	1.00	!	1.00
	organic matter		organic matter		organic matter	
	Ponding	1.00	Ponding	1.00	Ponding	1.00

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
426B: Emmert	 Somewhat limited Too sandy 	 0.88 	 Somewhat limited Too sandy 	 0.88 	 Somewhat limited Too sandy Slope Gravel content Content of large stones	 0.88 0.50 0.04 0.01
Mahtomedi	 Somewhat limited Too sandy 	 0.72 	 Somewhat limited Too sandy 	 0.72 		 0.72 0.50 0.04
Menahga	 Not limited 	 	 Not limited 	 	 Somewhat limited Slope	0.50
426C: Emmert	 Somewhat limited Too sandy Slope 	 0.88 0.04 	 Somewhat limited Too sandy Slope 	0.88		 1.00 0.88 0.04 0.01
Mahtomedi	 Somewhat limited Too sandy Slope	 0.72 0.04	-	 0.72 0.04		 1.00 0.72 0.04
Menahga	 Somewhat limited Slope	0.04	 Somewhat limited Slope	0.04	 Very limited Slope	1.00
426D: Emmert	 Very limited Slope Too sandy 	 1.00 0.88 	 Very limited Slope Too sandy 	 1.00 0.88 	:	 1.00 0.88 0.04 0.01
Mahtomedi	 Very limited Slope Too sandy	 1.00 0.72	 Very limited Slope Too sandy	 1.00 0.72	 Very limited Slope Too sandy Gravel content	 1.00 0.72 0.04
Menahga	 Very limited Slope	1.00	 Very limited Slope	 1.00	 Very limited Slope	1.00
430A: Freya	Very limited Depth to saturated zone Too sandy	 1.00 0.88	 Very limited Depth to saturated zone Too sandy	 1.00 0.88	 Very limited Depth to saturated zone Too sandy	 1.00 0.88
439B: Graycalm	 Somewhat limited Too sandy	0.30	 Somewhat limited Too sandy	0.30	 Somewhat limited Too sandy Slope	 0.30 0.12
Menahga	 Not limited 		 Not limited	 	 Somewhat limited Slope	0.12

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
439C:	 		 	l I	l	1
Graycalm	 Somewhat limited Too sandy Slope	0.30		 0.30 0.04	· -	1.00
Menahga	 Somewhat limited Slope	0.04	 Somewhat limited Slope	 0.04	 Very limited Slope	1.00
439D:	 		 	 	 	1
Graycalm	 Very limited Slope Too sandy	 1.00 0.30	· -	 1.00 0.30	:	 1.00 0.30
Menahga	 Very limited Slope	1.00	 Very limited Slope	 1.00	 Very limited Slope	 1.00
442C:	 		 	 	 	
Haugen	Somewhat limited Restricted permeability Too stony Depth to saturated zone	 0.60 0.50 0.39	Somewhat limited Restricted permeability Too stony Depth to saturated zone	 0.60 0.50 0.19	Restricted permeability	 1.00 0.60 0.50 0.39
	 		 		saturated zone Gravel content	0.05
Greenwood	 Very limited Depth to saturated zone Ponding	 1.00 1.00	saturated zone	 1.00 1.00	saturated zone	1.00
443D:	 		 	 	 	
Amery	 Very limited Slope Too stony Restricted permeability	 1.00 0.50 0.21 	Too stony	 1.00 0.50 0.21 	Too stony	 1.00 0.50 0.21 0.05 0.03
Greenwood	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00		 1.00 1.00
459A:	 		 	 	 	1
Loxley	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00
Daisybay	 Very limited Depth to saturated zone	1.00	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	1.00
	Ponding Restricted permeability	1.00	Ponding Restricted permeability	1.00 0.96 	Ponding	1.00

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas 		Picnic areas		Playgrounds 	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	<u> </u>	limiting features	<u> </u>
459A:	 		 		 	
Dawson	 Very limited		 Very limited		 Very limited	i
	Depth to	1.00	! -	1.00	: -	1.00
	saturated zone	į	saturated zone	į	saturated zone	į
	Ponding	1.00	Ponding	1.00	Ponding	1.00
461A:	 		 	l I	 	
Bowstring	 Very limited		 Very limited		 Very limited	i
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Flooding	1.00	1	1.00	1	1.00
	Content of	1.00			organic matter	!
	organic matter		Ponding	1.00		1.00
	Ponding	1.00	Flooding	0.40	Ponding	1.00
465A:						i
Newson	Very limited	İ	Very limited	ĺ	Very limited	İ
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	1
	Ponding	1.00	Ponding	1.00	Ponding	1.00
Meehan	 Very limited		 Very limited		 Very limited	
	Depth to	1.00	Too sandy	1.00	Depth to	1.00
	saturated zone		Depth to	1.00	saturated zone	
	Too sandy	1.00	saturated zone		Too sandy	1.00
469E:	 		 	1	 	
Bigisland	 Verv limited		 Very limited	i	 Very limited	i
3	Slope	1.00	! -	1.00	: -	1.00
	Too sandy	0.68	Too sandy	0.68	Content of large	1.00
	Gravel content	0.65	Gravel content	0.65	stones	İ
	Too stony	0.50	Too stony	0.50	Gravel content	1.00
	Content of large	0.16		0.16	:	0.68
	stones		stones		Too stony	0.50
Milaca	 Very limited		 Very limited		 Very limited	
	Slope	1.00	Slope	1.00	Slope	1.00
	Too stony	0.50	Too stony	0.50	Too stony	0.50
	Depth to	0.39	Depth to	0.19	Depth to	0.39
	saturated zone		saturated zone		saturated zone	
471B:	 		 		 	
Dairyland	Somewhat limited	İ	Somewhat limited	İ	Somewhat limited	i
-	Too stony	0.50	:	0.50		0.50
	Depth to	0.39	Depth to	0.19	Depth to	0.39
	saturated zone		saturated zone		saturated zone	
					Slope	0.12
Emmert	 Somewhat limited	 	 Somewhat limited	 	 Very limited	1
	Too stony	0.50	!	0.50	: -	1.00
	Gravel content	0.10	Gravel content	0.10	Too stony	0.50
		i		İ	Slope	0.12
		İ		İ	Content of large	
	I	1	I	I.	stones	1

Table 15a.--Recreational Development--Continued

 		 		Playgrounds 	
Rating class and	Value	Rating class and	Value	Rating class and	Valu
limiting features		limiting features		limiting features	<u> </u>
Somewhat limited	i	Somewhat limited	i	 Very limited	i
Too stony		•		· -	1.00
Depth to	0.39	Slope	0.37	Too stony	0.50
saturated zone	i	Depth to	0.19	Depth to	0.39
Slope	0.37	saturated zone	į	saturated zone	į
 Somewhat limited		 Somewhat limited		 Verv limited	1
		1	1		1.00
· -		· -		· -	0.88
· -	1	· -		· -	0.50
					0.04
İ	i	İ	i	'	
	İ		İ	stones	
l I		l I		 	
 Verv limited	i	 Verv limited	i	 Verv limited	i
: -	1	: -	1		1.00
: -		: -		saturated zone	
!	1.00	!	0.50		1.00
Too stony			0.40	Content of large	
					i
stones		stones		Too stony	0.50
 Verv limited		 Verv limited		 Verv limited	
: -	1	: -		· -	1.00
!	1.00	!	0.50	!	1.00
Too stony					0.50
	i	 Somewhat limited	i	 Somewhat limited	i
!	1	!		'	0.50
· -				· -	0.39
saturated zone	į	saturated zone	į	saturated zone	į
 Verv limited		 Somewhat limited		 Somewhat limited	
: -	1	!		!	0.50
Too stony	0.50	•		•	
 Very limited	i	 Very limited	i	 Very limited	ì
: -	1	: -		: -	1.00
saturated zone	i	saturated zone	i	saturated zone	i
Ponding	1.00	Ponding	1.00	Ponding	1.00
 Very limited		 Very limited	 	 Very limited	
Depth to	1.00				1.00
saturated zone	i	saturated zone	i	saturated zone	i
Content of	1.00	!	1.00	'	1.00
organic matter	i	1	i	organic matter	i
Ponding	1.00		1.00	!	1.00
Restricted	0.21	Restricted	0.21	Restricted	0.21
permeability	i	permeability	i	permeability	i -
	Somewhat limited Too stony Depth to saturated zone Slope Somewhat limited Too sandy Too stony Slope Very limited Depth to saturated zone Flooding Too stony Content of large stones Very limited Depth to saturated zone Flooding Too stony Content of large stones Very limited Depth to saturated zone Flooding Too stony Very limited Too stony Depth to saturated zone Very limited Flooding Too stony Very limited Flooding Too stony Very limited Flooding Too stony Very limited Content of saturated zone Ponding Very limited Depth to saturated zone Ponding Restricted	Somewhat limited Too stony 0.50 Depth to 0.39 saturated zone Slope 0.37 Somewhat limited Too sandy 0.88 Too stony 0.50 Slope 0.37 Very limited Depth to 1.00 saturated zone Flooding 1.00 Too stony 0.50 Content of large 0.29 stones Very limited Depth to 1.00 saturated zone Flooding 1.00 Too stony 0.50 Somewhat limited Too stony 0.50 Very limited Depth to 0.39 saturated zone Flooding 1.00 Too stony 0.50 Very limited Too stony 0.50 Very limited Too stony 0.50 Very limited Flooding 1.00 Too stony 0.50 Very limited Flooding 1.00 Too stony 0.50 Very limited Content of 0.50 Very limited Depth to 1.00 saturated zone Ponding 1.00 Very limited Depth to 1.00 saturated zone Ponding 1.00 Restricted 0.21	Somewhat limited	Somewhat limited	Somewhat limited

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
485C:	 		l		 		
Lupton	 Verv limited		 Very limited	 	 Very limited	i	
2	Depth to	1.00	Depth to	1.00	Depth to	1.00	
	saturated zone	į	saturated zone	İ	saturated zone	i	
	Content of	1.00	Content of	1.00	Content of	1.00	
	organic matter		organic matter		organic matter		
					Slope	1.00	
Tawas	 Verv limited		 Very limited		 Very limited		
	Depth to	1.00	! -	1.00		1.00	
	saturated zone	į	saturated zone	İ	saturated zone	i	
	Content of	1.00	Content of	1.00	Content of	1.00	
	organic matter		organic matter		organic matter		
	Ponding	1.00	Ponding	1.00	Slope	1.00	
					Ponding	1.00	
495B:	 	l I	 	 	 	1	
Karlsborg	Somewhat limited	i	Somewhat limited		Somewhat limited	i	
•	Depth to	0.98	Restricted	0.98	Depth to	0.98	
	saturated zone	ĺ	permeability	İ	saturated zone	j	
	Restricted	0.98	Too sandy	0.81	Restricted	0.98	
	permeability		Depth to	0.75	permeability		
	Too sandy	0.81	saturated zone	ļ	Too sandy	0.81	
	 		 		Slope	0.50	
Grettum	Somewhat limited		 Somewhat limited		 Somewhat limited		
	Too sandy	0.81	Too sandy	0.81	Too sandy	0.81	
					Slope	0.50	
Perida	 Somewhat limited		 Somewhat limited		 Somewhat limited		
	Too sandy	0.81	Too sandy	0.81	Too sandy	0.81	
	_	į	_	į	Slope	0.50	
495C:	l I	 	 		 		
Karlsborg	Somewhat limited				 Very limited	i	
_	Depth to	0.98	Restricted	0.98	Slope	1.00	
	saturated zone		permeability		Depth to	0.98	
	Restricted	0.98	Too sandy	0.81	saturated zone		
	permeability		Depth to	0.75	Restricted	0.98	
	Too sandy	0.81	saturated zone		permeability		
	Slope 	0.04	Slope 	0.04	Too sandy	0.81	
Grettum	Somewhat limited	İ	Somewhat limited	İ	 Very limited		
	Too sandy	0.81	Too sandy	0.81	Slope	1.00	
	Slope	0.04	Slope	0.04	Too sandy	0.81	
Perida	 Somewhat limited	1	 Somewhat limited	 	 Very limited		
	Too sandy	0.81	Too sandy	0.81	Slope	1.00	
	Slope	0.04	Slope	0.04	Too sandy	0.81	
495D:	 		 		 		
Karlsborg	 Very limited		 Very limited		 Very limited		
	Slope	1.00	Slope	1.00	Slope	1.00	
	Depth to	0.98	Restricted	0.98	Depth to	0.98	
	saturated zone		permeability		saturated zone		
	Restricted	0.98	Too sandy	0.81	Restricted	0.98	
	permeability	1	Depth to	0.75	permeability		
	Too sandy	0.81	saturated zone		Too sandy	0.81	

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
4050						
495D: Grettum	 Very limited		 Very limited	l I	 Very limited	
or codum	Slope	1.00	Slope	1.00	Slope	1.00
	Too sandy	0.81	-	0.81	<u>-</u>	0.81
Perida	 Very limited		 Very limited		 Very limited	
	Slope	1.00	Slope	1.00	Slope	1.00
	Too sandy	0.81	Too sandy	0.81	Too sandy	0.81
496B:	 					
Karlsborg	Somewhat limited	İ	Somewhat limited	i	Somewhat limited	i
	Depth to	0.98	Restricted	0.98	Depth to	0.98
	saturated zone		permeability		saturated zone	
	Restricted	0.98	Too sandy	0.81	!	0.98
	permeability		Depth to	0.75	permeability	
	Too sandy	0.81	saturated zone		Too sandy Slope	0.81
		į		į		
496C: Karlsborg	 Somewhat limited		Somewhat limited	l I	 Very limited	
Ralisbolg	Depth to	0.98	'	0.98	Slope	1.00
	saturated zone		permeability		Depth to	0.98
	Restricted	0.98	Too sandy	0.81	· -	i
	permeability	į	Depth to	0.75	Restricted	0.98
	Too sandy	0.81	saturated zone		permeability	
	Slope	0.04	Slope	0.04	Too sandy	0.81
496D:	 		 		 	
Karlsborg	Very limited		Very limited		Very limited	
	Slope	1.00	Slope	1.00	<u>-</u>	1.00
	Depth to	0.98	Restricted	0.98	Depth to	0.98
	saturated zone		permeability		saturated zone	
	Restricted permeability	0.98	Too sandy Depth to	0.81	!	0.98
	Too sandy	0.81	saturated zone		Too sandy	0.81
		İ				İ
497A: Meenon	 Verv limited		 Very limited	 	 Very limited	
	Depth to	1.00	_	1.00	Depth to	1.00
	saturated zone	i	saturated zone	i	saturated zone	i
	Restricted	1.00	Restricted	1.00	Restricted	1.00
	permeability		permeability		permeability	
	Too sandy	0.81	Too sandy	0.81	Too sandy	0.81
	 		 	 	Gravel content	0.06
521A:		į		į		į
Dody	: -		Very limited		Very limited	
	Depth to	1.00	-	1.00		1.00
	saturated zone Ponding	1.00	saturated zone Ponding	1.00	saturated zone Ponding	1.00
	Ponding Restricted	0.98	Ponding Restricted	0.98	Ponding Restricted	0.98
	permeability		permeability		permeability	
523A:			 			
Nokasippi	 Very limited		 Very limited		 Very limited	
		1				
Nonas Ipp I	Depth to	1.00	Depth to	1.00	Depth to	1.00
	Depth to saturated zone	1.00 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas 		 Picnic areas 		 Playgrounds 	Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
529B: Perida	 Very limited Too sandy	 1.00	 Very limited Too sandy	 1.00	 Very limited Too sandy	 1.00	
531A: Stengel	 Very limited Depth to saturated zone Too sandy	 1.00 0.81	 Very limited Depth to saturated zone Too sandy	 1.00 0.81	 Very limited Depth to saturated zone Too sandy	 1.00 0.81	
542B: Haugen, very stony		 0.60 0.50 0.39 	Somewhat limited Restricted permeability Too stony Depth to saturated zone	 0.60 0.50 0.19 	Somewhat limited Restricted permeability Slope Too stony Depth to saturated zone Gravel content	 0.60 0.50 0.50 0.39 	
Haugen	Somewhat limited Restricted permeability Depth to saturated zone	0.60	Somewhat limited Restricted permeability Depth to saturated zone	 0.60 0.19 	Somewhat limited Restricted permeability Slope Depth to saturated zone Gravel content Content of large stones	 0.60 0.50 0.39 0.05 0.03	
542C: Haugen, very stony	Somewhat limited Restricted permeability Too stony Depth to saturated zone Slope	 0.60 0.50 0.39 0.04	Somewhat limited Restricted permeability Too stony Depth to saturated zone Slope	 0.60 0.50 0.19 0.04	Depth to	 1.00 0.60 0.50 0.39 	
Haugen	Somewhat limited Restricted permeability Depth to saturated zone Slope	 0.60 0.39 0.04	Somewhat limited Restricted permeability Depth to saturated zone Slope	 0.60 0.19 0.04	Restricted permeability Depth to	 1.00 0.60 0.39 0.05 0.03	
544F: Menahga Mahtomedi	Slope	 1.00 	 Very limited Slope Very limited	 1.00 	 Very limited Slope Very limited	1.00	
	Slope Too sandy 	1.00 0.72 	Slope Too sandy 	1.00 0.72 		1.00 0.72 0.04	

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		 Picnic areas 		Playgrounds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
553B: Branstad	 Somewhat limited Depth to saturated zone	 0.39 	 Somewhat limited Depth to saturated zone	 0.19 	 Somewhat limited Depth to saturated zone Slope	 0.39 0.12
553C: Branstad	 Somewhat limited Depth to saturated zone Slope	 0.39 0.04	 Somewhat limited Depth to saturated zone Slope	 0.19 0.04	Depth to	 1.00 0.39
553D: Branstad	 Very limited Slope Depth to saturated zone	 1.00 0.39 	 Very limited Slope Depth to saturated zone	 1.00 0.19 		 1.00 0.39
555A: Fordum	 Very limited Depth to saturated zone Flooding Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Ponding Flooding	 1.00 1.00 0.40	saturated zone	 1.00 1.00 1.00 0.04
557B: Shawano	 Very limited Too sandy 	1.00	 Very limited Too sandy 	 1.00 	 Very limited Too sandy Slope	 1.00 0.12
557C: Shawano	 Very limited Too sandy Slope	 1.00 0.04	 Very limited Too sandy Slope	 1.00 0.04	· -	1.00
557D: Shawano	 Very limited Too sandy Slope	 1.00 1.00	 Very limited Too sandy Slope	 1.00 1.00	 Very limited Slope Too sandy	 1.00 1.00
586A: Chelmo	 Very limited Depth to saturated zone Ponding Restricted permeability	 1.00 1.00 0.98	 Very limited Depth to saturated zone Ponding Restricted permeability	 1.00 1.00 0.98	saturated zone Ponding	 1.00 1.00 0.98
600A: Haplosaprists	 Not rated 		 Not rated 	 	 Not rated 	
Psammaquents	Not rated	<u> </u>	 Not rated 	<u> </u>	 Not rated 	į Į
615B: Cress	 Not limited 		 Not limited 	 	 Somewhat limited Slope	0.12
615C: Cress	 Somewhat limited Slope 	 0.04	 Somewhat limited Slope 	 0.04	 Very limited Slope 	 1.00

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas 		Picnic areas		Playgrounds 	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	<u> </u>	limiting features	<u> </u>
615D: Cress	 Very limited Slope	1.00	 Very limited Slope	 1.00	 Very limited Slope	1.00
620C: Lundeen	 Somewhat limited Too stony 	 0.50 	 Somewhat limited Too stony 	 0.50 	 Very limited Slope Too stony Depth to bedrock	 1.00 0.50 0.46
Haustrup	 Very limited Depth to bedrock Too stony	 1.00 0.50	 Very limited Depth to bedrock Too stony	 1.00 0.50	 Very limited Depth to bedrock Slope Too stony	 1.00 1.00 0.50
Rock outcrop	 Not rated		 Not rated		 Not rated 	
621A: Bjorkland	 Very limited Depth to saturated zone Ponding Restricted permeability	 1.00 1.00 0.98	 Very limited Depth to saturated zone Ponding Restricted permeability	 1.00 1.00 0.98	saturated zone Ponding	 1.00 1.00 0.98
623A: Capitola	 Very limited Depth to saturated zone Ponding Too stony	 1.00 1.00 0.50	 Very limited Depth to saturated zone Ponding Too stony	 1.00 1.00 0.50	 Very limited Depth to saturated zone Ponding Too stony	 1.00 1.00 0.50
624A: Ossmer	 Very limited Depth to saturated zone	 1.00	Very limited Depth to saturated zone	 1.00	Very limited Depth to saturated zone	 1.00
631A: Giese	 Very limited Depth to saturated zone Ponding Restricted permeability	 1.00 1.00 0.96	 Very limited Depth to saturated zone Ponding Restricted permeability	 1.00 1.00 0.96	saturated zone	 1.00 1.00 0.96
	Too stony	0.50	Too stony	0.50	Too stony	0.50
632A: Aftad	 Somewhat limited Depth to saturated zone	 0.39 	 Somewhat limited Depth to saturated zone	 0.19 	 Somewhat limited Depth to saturated zone	0.39
632B: Aftad	 Somewhat limited Depth to saturated zone 	 0.39 	 Somewhat limited Depth to saturated zone	 0.19 	 Somewhat limited Slope Depth to saturated zone	0.50

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas 		 Picnic areas 		 Playgrounds 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
632C: Aftad	 Somewhat limited Depth to saturated zone Slope	 0.39 0.04	 Somewhat limited Depth to saturated zone Slope	 0.19 0.04	 Very limited Slope Depth to saturated zone	 1.00 0.39
634C: Drylanding	Very limited Depth to bedrock Restricted permeability Content of large stones	1.00			Very limited Restricted permeability Depth to bedrock Content of large stones Slope Gravel content	1
Beartree	 Very limited Depth to saturated zone Depth to bedrock Ponding	1.00	 Very limited Depth to saturated zone Depth to bedrock Ponding	1.00		 1.00 1.00 1.00
Rock outcrop	Not rated		 Not rated		Not rated	
635C: Drylanding	 Very limited Flooding Depth to bedrock Restricted permeability Content of large stones	1.00 1.00 1.00				1
Beartree	 Very limited Depth to saturated zone Flooding Depth to bedrock Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Depth to bedrock Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Depth to bedrock Ponding	 1.00 1.00 1.00
Rock outcrop	 Not rated		 Not rated		 Not rated	
648B: Sconsin	 Somewhat limited Depth to saturated zone 	 0.98 	 Somewhat limited Depth to saturated zone 	 0.75 	 Somewhat limited Depth to saturated zone Slope	 0.98 0.50
669D: Fremstadt, stony	 Very limited Slope Too sandy Too stony	 1.00 0.50 0.50	 Very limited Slope Too sandy Too stony	 1.00 0.50 0.50	 Very limited Slope Too sandy Too stony Gravel content	 1.00 0.50 0.50 0.43

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
669D:						Į.
Pomroy	 Very limited		 Very limited		 Very limited	
	Slope	1.00	Slope	1.00	Slope	1.00
	Too sandy	0.50	Too sandy	0.50	Too sandy	0.50
	Depth to	0.39	Depth to	0.19	Depth to	0.39
	saturated zone		saturated zone		saturated zone Gravel content	0.06
7810		į		į		į
71B: Spoonerhill, stony	 Somewhat limited		 Somewhat limited		 Somewhat limited	
	Depth to	0.39	Restricted	0.21	Slope	0.50
	saturated zone		permeability		Depth to	0.39
	Restricted	0.21	Depth to	0.19	saturated zone	
	permeability		saturated zone		Restricted	0.21
					permeability	
]	 	Content of large stones	0.05
					Gravel content	0.02
Spoonerhill	 Somewhat limited		 Somewhat limited		 Somewhat limited	
DP-0-11-11-1	Depth to	0.39	Restricted	0.21	Slope	0.50
	saturated zone	i	permeability	İ	Depth to	0.39
	Restricted	0.21	Depth to	0.19	saturated zone	İ
	permeability		saturated zone		Restricted	0.21
	!				permeability	!
					Gravel content	0.02
					Content of large stones	0.01
706A:					 -	Ì
Winterfield	 Very limited		 Very limited		 Very limited	1
WINCOILICIA	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	i
	Flooding	1.00	Flooding	0.40	Flooding	1.00
Totagatic	 Very limited		 Very limited		 Very limited	
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Flooding	1.00	Ponding	1.00	Flooding	1.00
	Ponding	1.00	Flooding 	0.40	Ponding 	1.00
15A:	 	į	 	į	 	į
Mora	Depth to	1.00	Very limited Depth to	1.00	Very limited Depth to	1.00
	Depth to	1	saturated zone	1.00	saturated zone	1
	saturated zone			1	!	
	saturated zone Too stony	0.50	Too stony	0.50	Too stony	0.50
717B:		0.50	!	0.50	Too stony 	0.50
17B: Milaca		į Į	!	0.50	Too stony Somewhat limited	0.50
	Too stony	į Į	Too stony	0.50	- 	0.50 0.88
	Too stony Somewhat limited	 	Too stony	 	 Somewhat limited	
	Too stony Somewhat limited Too stony	0.50	Too stony	 0.50	 Somewhat limited Slope	0.88
Milaca	Too stony Somewhat limited Too stony Depth to	0.50	Too stony	 0.50	 Somewhat limited Slope Too stony Depth to	 0.88 0.50
Milaca	Too stony Somewhat limited Too stony Depth to	 0.50 0.39 	Too stony	 0.50 0.19 	 Somewhat limited Slope Too stony Depth to	 0.88 0.50
Milaca	Too stony Somewhat limited Too stony Depth to saturated zone	 0.50 0.39 	Too stony Somewhat limited Too stony Depth to saturated zone	 0.50 0.19 	 Somewhat limited Slope Too stony Depth to saturated zone	 0.88 0.50
Milaca	Too stony Somewhat limited Too stony Depth to saturated zone Somewhat limited	 0.50 0.39 	Too stony	 0.50 0.19 		 0.88 0.50 0.39
717C:	Too stony Somewhat limited Too stony Depth to saturated zone Somewhat limited Too stony	0.50	Too stony Somewhat limited Too stony Depth to saturated zone Somewhat limited Too stony	 0.50 0.19 0.50	Somewhat limited Slope Too stony Depth to saturated zone	 0.88 0.50 0.39

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		 Picnic areas 		Playgrounds	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>
720F:						
Haustrup	Depth to bedrock	1	Very limited Depth to bedrock	:	Very limited Slope	1.00
	Slope	1.00	Slope	1.00	<u>-</u>	
	Too stony	0.50	Too stony	0.50	Too stony	0.50
					100 beeny	
Lundeen	 Very limited	i	 Very limited	İ	Very limited	i
	Slope	1.00	Slope	1.00	Slope	1.00
	Too stony	0.50	Too stony	0.50	Too stony	0.50
					Depth to bedrock	0.46
	 	ļ	 		 	
Rock outcrop	Not rated		Not rated		Not rated	
726B:	 		 	 	 	i
Sissabagama	Somewhat limited	i	Somewhat limited	İ	Somewhat limited	i
	Too sandy	0.81	Too sandy	0.81	Too sandy	0.81
	İ	ĺ			Slope	0.12
						!
742B:					 Somewhat limited	
Milaca	Somewhat limited Too stony	0.50	Somewhat limited Too stony	0.50		0.50
	Depth to	0.30	Depth to	0.19	Slope Too stony	0.50
	saturated zone	0.35	saturated zone	1	Depth to	0.39
		i		İ	saturated zone	
	İ	į		j		İ
742C:						
Milaca	Somewhat limited	1	Somewhat limited	:	Very limited	
	Too stony	0.50	-	0.50		1.00
	Depth to	0.39	Depth to	0.19		0.50
	saturated zone Slope	0.04	saturated zone Slope	0.04	Depth to saturated zone	0.39
	Siope	0.01	slobe	0.01	Sacuraced Zone	Ì
742D:		i		İ		ì
Milaca	Very limited	İ	Very limited	İ	Very limited	i
	Slope	1.00	Slope	1.00	Slope	1.00
	Too stony	0.50	Too stony	0.50	Too stony	0.50
	Depth to	0.39	Depth to	0.19		0.39
	saturated zone		saturated zone		saturated zone	
755A:	 			 		l
	 Very limited	l	Not limited	l I	 Somewhat limited	Ì
	Flooding	1.00		İ	Flooding	0.60
	į	į		į		İ
Fordum	Very limited		Very limited		Very limited	
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Flooding	1.00	Ponding	1.00		1.00
	Ponding	1.00	Flooding	0.40	Ponding Gravel content	1.00
	! 	İ	! 	İ	STAVET CONCERC	
771A:		i		İ		i
Lenroot	Somewhat limited	į	Somewhat limited	İ	Somewhat limited	İ
	Too sandy	0.72	Too sandy	0.72	Too sandy	0.72
	Depth to	0.39	Depth to	0.19	Depth to	0.39
	saturated zone		saturated zone		saturated zone	
	i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de		i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de		Gravel content	0.06

Table 15a.--Recreational Development--Continued

Map symbol and soil name	 Camp areas 		 Picnic areas 		Playgrounds 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
812B: Mora	Depth to saturated zone	1.00	saturated zone	1.00	saturated zone	 1.00
825A:	Too stony 	0.50 	Too stony 	0.50 	Too stony 	0.50
Meehan	Very limited Depth to saturated zone Too sandy	 1.00 1.00	Very limited Too sandy Depth to saturated zone	 1.00 1.00 	: -	 1.00 1.00
896A: Wurtsmith	Very limited Too sandy Depth to saturated zone	 1.00 0.39 		 1.00 0.19 	Depth to saturated zone	 1.00 0.39 0.06
980A: Soderbeck	Very limited Depth to saturated zone Flooding Gravel content Too stony Content of large stones	1.00 1.00 0.97 0.50	saturated zone Gravel content Too stony Content of large	1.00 0.97 0.50	saturated zone Gravel content Content of large	 1.00 1.00 0.99 0.50
1070C: Fremstadt	 Somewhat limited Slope 	 0.16	 Somewhat limited Slope 	 0.16	 Very limited Slope Gravel content	 1.00 0.43
Cress	 Somewhat limited Slope	 0.04	 Somewhat limited Slope	 0.04	 Very limited Slope	1.00
1070D: Fremstadt	 Very limited Slope	 1.00	 Very limited Slope 	 1.00	 Very limited Slope Gravel content	 1.00 0.43
Cress	 Very limited Slope	1.00	 Very limited Slope	1.00	 Very limited Slope	1.00
1080B: Spoonerhill	 Somewhat limited Depth to saturated zone Restricted permeability	 0.39 0.21 	 Somewhat limited Restricted permeability Depth to saturated zone	 0.21 0.19 	Depth to	 0.50 0.39 0.21 0.02 0.01

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds 	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features		limiting features		limiting features	
1080B:	 -		 Comparison limited		 Somewhat limited	
Spoonerhill, stony	Depth to	0.39	Somewhat limited Restricted	0.21	!	0.50
	saturated zone		permeability		Depth to	0.39
	Restricted	0.21	Depth to	0.19	saturated zone	
	permeability	İ	saturated zone	İ	Restricted	0.21
	İ	į	j	İ	permeability	į
					Content of large	0.05
					stones	
	 		 		Gravel content	0.02
Cress	Not limited	j	Not limited	j	Somewhat limited	į
					Slope	0.12
2002:	 		 		 	
Udorthents, earthen		i		İ		ì
dams	Not rated	i	Not rated	İ	Not rated	i
	İ	İ	į	İ	İ	İ
2015:						
Pits	Not rated		Not rated		Not rated	
						ļ
2050:						1
Landfill	Not rated		Not rated	 	Not rated	
3011A:	 		 		 	
Barronett	Very limited	j	Very limited	ĺ	Very limited	İ
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Ponding	1.00	Ponding	1.00		1.00
	Restricted	0.21	Restricted	0.21	Restricted	0.21
	permeability		permeability	l I	permeability	1
3082E:	 	i	 		 	1
Braham	 Very limited	i	 Very limited	İ	 Very limited	i
	Slope	1.00	Slope	1.00	Slope	1.00
	Too sandy	0.72	Too sandy	0.72	Too sandy	0.72
			!		!	!
Shawano			Very limited		Very limited	
	Too sandy Slope	1.00 1.00	Too sandy Slope	1.00 1.00	Slope Too sandy	1.00
	Siope	1	Slope	1	100 sandy	1
3114A:	 	i		i	 	i
Saprists	Very limited	İ	Very limited	İ	Very limited	i
	Depth to	1.00	Ponding	1.00	Depth to	1.00
	saturated zone		Depth to	1.00	saturated zone	
	Ponding	1.00	saturated zone		Content of	1.00
	Content of	1.00	Content of	1.00	organic matter	
	organic matter		organic matter		Ponding	1.00
Aquents	 Vorus limited		 Very limited	l I	 Very limited	
daenca	Depth to	1.00	Ponding	1.00	Depth to	1.00
	saturated zone		Depth to	1.00	saturated zone	
	Ponding	1.00	saturated zone		Ponding	1.00
Aquepts	Very limited		Very limited		Very limited	
	Depth to	1.00	Ponding	1.00	Depth to	1.00
	saturated zone		Depth to	1.00	saturated zone	
	Ponding	1.00	saturated zone	1	Ponding	1.00
	I	1	I	I	1	1

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas 		Picnic areas 		Playgrounds 	Playgrounds 	
	Rating class and	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
3125A: Meehan	 Very limited Depth to saturated zone Too sandy	 1.00 0.81	saturated zone	 1.00 0.81	 Very limited Depth to saturated zone Too sandy	 1.00 0.81	
3126A:	 		 		 		
Wurtsmith	Somewhat limited Too sandy Depth to saturated zone	0.60	Somewhat limited Too sandy Depth to saturated zone	 0.60 0.19 	Somewhat limited Too sandy Depth to saturated zone Gravel content	0.60	
3312B:					 		
Glendenning, very stony	 Very limited Depth to saturated zone Too stony Restricted permeability	 1.00 0.50 0.21 	 Very limited Depth to saturated zone Too stony Restricted permeability	 1.00 0.50 0.21 		 1.00 0.50 0.21 0.05 0.03	
Glendenning	Very limited Depth to saturated zone Restricted permeability	 1.00 0.21 	Very limited Depth to saturated zone Restricted permeability	 1.00 0.21 	Very limited Depth to saturated zone Restricted permeability Gravel content Content of large stones	 1.00 0.21 0.06 0.01	
3336A:							
Fenander	Very limited Depth to saturated zone Ponding Restricted permeability	 1.00 1.00 0.21	Very limited Depth to saturated zone Ponding Restricted permeability	 1.00 1.00 0.21		 1.00 1.00 0.21	
3403A:							
Loxley	Very limited	 1.00 1.00 1.00	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	
Beseman	Depth to saturated zone Content of organic matter	1.00 1.00	Very limited Depth to saturated zone Content of organic matter	 1.00 1.00	Very limited Depth to saturated zone Content of organic matter	 1.00 1.00	
	Ponding Restricted permeability	1.00 0.21 	Ponding Restricted permeability	1.00 0.21 	Ponding Restricted permeability	1.00 0.21 	

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		 Playgrounds 	
	Rating class and	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3403A: Dawson	Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00
3429B: Lara	 Somewhat limited Depth to saturated zone Too sandy	 0.98 0.76	 Somewhat limited Too sandy Depth to saturated zone	 0.76 0.75 	: -	0.98
3429C: Lara		 0.98 0.76 0.04	Somewhat limited Too sandy Depth to saturated zone Slope	 0.76 0.75 0.04	 Very limited Slope Depth to saturated zone Too sandy	 1.00 0.98 0.76
3446A: Newson	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00
3448B: Grettum	 Somewhat limited Too sandy	0.81	 Somewhat limited Too sandy	 0.81	 Somewhat limited Too sandy Slope	0.81
3448C: Grettum	 Somewhat limited Too sandy Slope	 0.81 0.04	 Somewhat limited Too sandy Slope	 0.81 0.04	 Very limited Slope Too sandy	 1.00 0.81
3510B: Pomroy	 Somewhat limited Too sandy Too stony Depth to saturated zone	 0.50 0.50 0.39	 Somewhat limited Too sandy Too stony Depth to saturated zone	 0.50 0.50 0.19 		 0.50 0.50 0.50 0.39
Fremstadt	 Somewhat limited Too sandy Too stony 	 0.50 0.50 	 Somewhat limited Too sandy Too stony 	 0.50 0.50 	 Somewhat limited Slope Too sandy Too stony Gravel content	 0.50 0.50 0.50 0.43
Fremstadt, stony	 Somewhat limited Too sandy 	0.50	 Somewhat limited Too sandy 	 0.50 	 Somewhat limited Slope Too sandy Gravel content	 0.50 0.50 0.43

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		†		İ		i
3510C:						
Pomroy	Somewhat limited		Somewhat limited		Very limited	!
	Too sandy	0.50	Too sandy	0.50	Slope	1.00
	Too stony	0.50	Too stony	0.50	Too sandy	0.50
	Depth to	0.39	Depth to	0.19	Too stony	0.50
	saturated zone	0.16	saturated zone Slope	0.16	Depth to saturated zone	0.39
	Slope 		STOPE		Gravel content	0.06
Fremstadt	 Somewhat limited		 Somewhat limited		 Very limited	
	Too sandy	0.50	Too sandy	0.50	Slope	1.00
	Slope	0.16	Slope	0.16	Too sandy	0.50
		į	_	į	Gravel content	0.43
Fremstadt, stony	 Somewhat limited		 Somewhat limited		 Very limited	
	Too sandy	0.50	Too sandy	0.50	Slope	1.00
	Too stony	0.50	Too stony	0.50	Too sandy	0.50
	Slope	0.16	Slope	0.16	Too stony	0.50
	 		 		Gravel content	0.43
3511A:	 	į	 		 	į
Bushville	Depth to	1.00	Very limited	:	Very limited	11 00
	saturated zone	11.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Too sandy	0.30	Too sandy	0.30	Too sandy	0.30
3516A:	<u> </u>	į	- 	į	- 	į
Slimlake	 Not limited		 Not limited	 	 Not limited	
3625A:			 		 	
Lino	Very limited	i	Very limited	i	Very limited	i
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone	İ	saturated zone	İ	saturated zone	İ
	Too sandy	0.31	Too sandy	0.31	Too sandy	0.31
3626A:						
Crex	!		Somewhat limited	:	Somewhat limited	
	Depth to	0.39	Depth to	0.19	Depth to	0.39
	saturated zone		saturated zone		saturated zone	
3629B:						ļ
Perida	Somewhat limited		Somewhat limited		Somewhat limited	
	Too sandy	0.81 	Too sandy	0.81 	Too sandy	0.81
3636B:	į	į	į	į	į	į
Plainbo			Very limited		Very limited	!
	Too sandy	1.00	Too sandy	1.00	Too sandy	1.00
					Gravel content	0.78
					Slope Depth to bedrock	0.50
3636C:	 		 		 	
Plainbo	 Very limited		 Very limited		 Very limited	
	Too sandy	1.00	: -	1.00	Slope	1.00
	Slope	0.04	Slope	0.04		1.00
					Gravel content	0.78
					Depth to bedrock	0.46
	 		 		Depth to bedrock	0.

Table 15a.--Recreational Development--Continued

Map symbol and soil name	Camp areas		Picnic areas		Playgrounds 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
M-W: Miscellaneous water	 Not rated	 	 Not rated		 Not rated	
W: Water	 Not rated		 Not rated	 	 Not rated	

Table 15b.--Recreational Development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	 Golf fairways 	ı
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Valu
BA:	 		 		 	l I
Totagatic	 Very limited	İ	 Very limited	İ	 Very limited	i
J	Depth to	1.00		1.00	: -	1.00
	saturated zone	İ	saturated zone	İ	Depth to	1.00
	Ponding	1.00	Ponding	1.00	saturated zone	
	Flooding	0.40	Flooding	0.40	Ponding	1.00
Bowstring	 Very limited		 Very limited		 Very limited	
	Depth to	1.00	Depth to	1.00	Flooding	1.00
	saturated zone		saturated zone		Content of	1.00
	Content of	1.00	Content of	1.00	organic matter	
	organic matter		organic matter		Depth to	1.00
	Ponding	1.00	Ponding	1.00	saturated zone	
	Flooding	0.40	Flooding	0.40	Ponding	1.00
Ausable	 Very limited		 Very limited		 Very limited	
	Depth to	1.00	Depth to	1.00	Flooding	1.00
	saturated zone	İ	saturated zone	İ	Depth to	1.00
	Ponding	1.00	Ponding	1.00	saturated zone	
	Flooding	0.40	Flooding	0.40	Ponding	1.00
2A:			 		 	
Makwa	Very limited	İ	Very limited	İ	Very limited	ĺ
	Depth to	1.00	Depth to	1.00	Flooding	1.00
	saturated zone		saturated zone		Depth to	1.00
	Ponding	1.00	Ponding	1.00	saturated zone	
	Too stony	0.50	Too stony	0.50	Ponding	1.00
	Flooding	0.40	Flooding	0.40	Content of large	0.99
	Content of large stones	0.01	Content of large stones	0.01	stones	
		į		į		į
22A: Comstock	 Very limited		 Very limited		 Very limited	
	Depth to	1.00		1.00	Depth to	1.00
	saturated zone	į	saturated zone	į	saturated zone	į
7A:					 	
Scott Lake	Not limited	į	Not limited	İ	Somewhat limited	i
					Droughty	0.01
8B:			 		 	
Haugen, very stony	Somewhat limited	i	Somewhat limited	İ	Somewhat limited	i
	Too stony	0.50	Too stony	0.50	Depth to	0.19
		İ		İ	saturated zone	ĺ
		İ		İ	Content of large	0.03
					stones	
Haugen	 Not limited		 Not limited		 Somewhat limited	
-		i		İ	Depth to	0.19
	İ	i		İ	saturated zone	i
	į	į	İ	İ	Content of large	0.03
	i .		ı	1	stones	

Table 15b.--Recreational Development--Continued

Map symbol and soil name	 Paths and trail 	s	Off-road motorcycle trai	ls	Golf fairways	
	Rating class and	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
28B: Rosholt, very stony		 0.50 	 Somewhat limited Too stony 	 0.50 	 Somewhat limited Droughty Content of large stones	 0.02 0.01
Rosholt	 Not limited 	 	 Not limited 	 	 Somewhat limited Droughty	0.01
28C: Haugen, very stony	 Somewhat limited Too stony 	 0.50 	 Somewhat limited Too stony 	 0.50 	saturated zone	 0.19 0.04
Haugen	 Not limited 	 	 Not limited 	 	Content of large stones Somewhat limited Depth to saturated zone Slope Content of large stones	 0.19 0.04
Rosholt, very stony	 Somewhat limited Too stony	 0.50 	 Somewhat limited Too stony	 0.50 	 Somewhat limited	 0.04 0.02 0.01
Rosholt	 Not limited 	 	 Not limited 	 	Somewhat limited Slope Droughty	 0.04 0.01
38A: Rosholt	 Not limited 	 	 Not limited 	 	 Somewhat limited Droughty 	 0.01
38B: Rosholt	 Not limited 	 	 Not limited 	 	 Somewhat limited Droughty	0.01
38C: Rosholt	 Not limited 	 	 Not limited 	 	 Somewhat limited Slope Droughty	 0.04 0.01
38D: Rosholt	 Somewhat limited Slope 	 0.02	 Not limited 	 	 Very limited Slope Droughty	 1.00 0.01
42D: Amery	 Somewhat limited Too stony Slope 	 0.50 0.02	 Somewhat limited Too stony 	 0.50 	 Very limited Slope Content of large stones	 1.00 0.03
43B: Antigo	 Not limited 	 	 Not limited 	 	 Not limited 	

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	Golf fairways 	
	Rating class and limiting features	Value	Rating class and	Value	Rating class and limiting features	Value
43C: Antigo	 Very limited Water erosion	 1.00	 Very limited Water erosion	 1.00	 Somewhat limited Slope	 0.37
63A: Crystal Lake	 Not limited 		 Not limited 	 	 Somewhat limited Depth to saturated zone	 0.19
63B: Crystal Lake	 Not limited 	 	 Not limited 	 	 Somewhat limited Depth to saturated zone	 0.19
63C: Crystal Lake	 Very limited Water erosion 	 1.00 	 Very limited Water erosion 	 1.00 	 Somewhat limited Depth to saturated zone Slope	 0.19 0.04
64A: Totagatic	 Very limited Depth to saturated zone Ponding Flooding	 1.00 1.00 0.40	saturated zone	 1.00 1.00 0.40	Depth to saturated zone	 1.00 1.00 1.00
Winterfield	 Very limited Depth to saturated zone Too sandy Flooding	 1.00 0.79 0.40	 Very limited Depth to saturated zone Too sandy Flooding	 1.00 0.79 0.40	 Very limited Flooding Depth to saturated zone Droughty	 1.00 1.00 0.50
69C:	 	İ	 		 	
Keweenaw	Somewhat limited Too sandy	 0.76 	Somewhat limited Too sandy	 0.76 	Somewhat limited Slope Droughty Content of large stones	 0.16 0.06 0.01
Sayner	 Somewhat limited Too sandy 	 0.87 	 Somewhat limited Too sandy 	 0.87 		 0.94 0.16 0.05
Vilas	 Somewhat limited Too sandy 	 0.87 	 Somewhat limited Too sandy 	 0.87 	 Somewhat limited Droughty Slope	 0.42 0.16
69E: Keweenaw	 Very limited Slope Too sandy 	 1.00 0.76	 Somewhat limited Too sandy Slope 	 0.76 0.22 	 Very limited Slope Droughty Content of large stones	 1.00 0.06 0.01

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	 Golf fairways 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
69E: Sayner	 Very limited Slope Too sandy 	 1.00 0.87	 Somewhat limited Too sandy Slope 	 0.87 0.22 	:	 1.00 0.94 0.05
Vilas	 Very limited Slope Too sandy 	 1.00 0.87	 Somewhat limited Too sandy Slope 	 0.87 0.22	:	 1.00 0.42
82B: Cutaway	 Somewhat limited Too sandy 	 0.72 	 Somewhat limited Too sandy 	 0.72 	 Somewhat limited Depth to saturated zone	 0.19
Branstad	 Not limited 	 	 Not limited 	 	 Somewhat limited Depth to saturated zone	 0.19
82C: Cutaway	 Somewhat limited Too sandy 	 0.72 	 Somewhat limited Too sandy 	 0.72 	 Somewhat limited Depth to saturated zone Slope	 0.19 0.04
Branstad	 Not limited 	 	 Not limited 	 	Somewhat limited Depth to saturated zone Slope	0.19
83A: Smestad	 Very limited Depth to saturated zone Too sandy	 1.00 0.79	saturated zone	 1.00 0.79	 Very limited Depth to saturated zone	
85B: Taylor	 Somewhat limited Depth to saturated zone	 0.99 	 Somewhat limited Depth to saturated zone	 0.99 	 Very limited Depth to saturated zone	 0.99
85C: Taylor	 Very limited Water erosion Depth to saturated zone	 1.00 0.99 	 Very limited Water erosion Depth to saturated zone	 1.00 0.99 		 0.99 0.04
86A: Indus	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00
Alango	 Very limited Depth to saturated zone 	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	 Golf fairways 	ı
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
89A: Wildwood	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	organic matter Depth to saturated zone	 1.00 1.00
96B: Karlsborg	Very limited Too sandy Depth to saturated zone	 1.00 0.44 	Very limited Too sandy Depth to saturated zone	 1.00 0.44 	-	 0.75 0.50 0.26
96C: Karlsborg	Very limited Too sandy Depth to saturated zone	 1.00 0.44 	Very limited Too sandy Depth to saturated zone	 1.00 0.44 	-	 0.75 0.50 0.26 0.04
96D: Karlsborg	Very limited Too sandy Depth to saturated zone Slope	 1.00 0.44 0.02	 Very limited Too sandy Depth to saturated zone	 1.00 0.44 		 1.00 0.75 0.50 0.26
100B: Menahga	 Very limited Too sandy 	 1.00	 Very limited Too sandy 	 1.00	 Somewhat limited Droughty Too sandy	0.93
100C: Menahga	 Not limited 	 	 Not limited 	 	 Somewhat limited Droughty Slope	 0.51 0.04
100D: Menahga	 Somewhat limited Slope 	 0.68	 Not limited 	 	 Very limited Slope Droughty	 1.00 0.51
120B: Kost	 Very limited Too sandy 	 1.00	 Very limited Too sandy 	 1.00	 Somewhat limited Droughty 	0.50
127D: Amery	 Somewhat limited Too stony Slope 	 0.50 0.02	 Somewhat limited Too stony 	 0.50 	 Very limited Slope Content of large stones	 1.00 0.03
Rosholt	Somewhat limited Too stony Slope	 0.50 0.02 	 Somewhat limited Too stony 	 0.50 	 Very limited Slope Droughty Content of large stones	 1.00 0.02 0.01

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	 Golf fairways 	Golf fairways 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
127E:	 		 		 		
Amery	Very limited Slope Too stony	 1.00 0.50	Somewhat limited Slope Too stony	 0.56 0.50 	Very limited Slope Content of large stones	 1.00 0.03	
Rosholt	 Very limited Slope Too stony 	 1.00 0.50 	 Somewhat limited Slope Too stony 	 0.56 0.50 	 Very limited Slope Droughty Content of large stones	 1.00 0.02 0.01	
151A: Bluffton	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	
152A:	 		 		 		
Alstad	Very limited Depth to saturated zone	1.00	 Very limited Depth to saturated zone	1.00	 Very limited Depth to saturated zone	1.00	
154E: Cushing	 Very limited Slope Too sandy	 1.00 0.01	 Somewhat limited Slope Too sandy	 0.04 0.01	 Very limited Slope 	1.00	
156B: Magnor, very stony	 Very limited Depth to saturated zone Too stony	 1.00 0.50	 Very limited Depth to saturated zone Too stony	 1.00 0.50	saturated zone	 1.00 0.01	
Magnor	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	
157B:		į		į		į	
Freeon, very stony	Very limited Depth to saturated zone Too stony	 1.00 0.50	Very limited Depth to saturated zone Too stony	 1.00 0.50	Very limited Depth to saturated zone 	 1.00 	
Freeon	 Very limited Depth to saturated zone 	 1.00 	 Very limited Depth to saturated zone 	 1.00 	 Very limited Depth to saturated zone Content of large stones	 1.00 0.01	
157C:		į		į		į	
Freeon, very stony	Very limited Depth to saturated zone Water erosion Too stony	 1.00 1.00 0.50	Very limited	 1.00 1.00 0.50	Very limited Depth to saturated zone Slope 	 1.00 0.04	

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	 Golf fairways 	3
	Rating class and	Value		Value	Rating class and	Value
	limiting features	1	limiting features	1	limiting features	
157C:	[
Freeon	Very limited	į	Very limited	į	Very limited	į
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Water erosion	1.00	Water erosion	1.00	Slope	0.04
			 		Content of large stones	
	į	į		į		į
160A: Oesterle	 Verv limited	 	 Very limited	 	 Very limited	
	Depth to	1.00		1.00	_	1.00
	saturated zone	İ	saturated zone	İ	saturated zone	į
165B:	 		 			
Elderon	Not limited		Not limited		Somewhat limited	İ
	!				Droughty	0.94
			 		Content of large stones	0.01
185B: Tradelake	 Comprehent limited		 Somewhat limited		Somewhat limited	
IIadelake	Depth to	0.44	!	0.44		0.75
	saturated zone		saturated zone		saturated zone	
Taylor	 Comowhat limited		 Somewhat limited		 Very limited	
layioi	Depth to	0.99	!	0.99	-	0.99
	saturated zone		saturated zone		saturated zone	
185C:]	
Tradelake	Somewhat limited		Somewhat limited		Somewhat limited	İ
	Depth to	0.44	· -	0.44	-	0.75
	saturated zone		saturated zone		saturated zone	
	[Slope 	0.04
Taylor	· -	:	Very limited	:	Very limited	į
	Water erosion	1.00	!	1.00		0.99
	Depth to saturated zone	0.99	Depth to saturated zone	0.99	saturated zone	0.04
	į				-	į
185D: Tradelake	 Somewhat limited	 	 Not limited	 	 Very limited	
	Slope	0.24		İ	Slope	1.00
	İ	İ	İ	İ	Depth to	0.19
					saturated zone	
Taylor	 Very limited		 Very limited		 Very limited	
	Water erosion	1.00	'	1.00	Slope	1.00
	Depth to	0.99	: -	0.99		0.99
	saturated zone Slope	0.24	saturated zone		saturated zone	
	<u> </u>	į		į		į
185E: Tradelake	 Verv limited		Somewhat limited		 Very limited	
	Slope	1.00	!	0.22		1.00
	į –	İ	_	İ	Depth to	0.19
	i	1	i .	1	saturated zone	1

Table 15b.--Recreational Development--Continued

Map symbol and soil name	 Paths and trail: 	s	 Off-road motorcycle trai 	ls	Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
185E: Taylor	 Very limited Slope	 1.00 1.00 0.99	 Very limited Water erosion	 1.00 0.99 0.22	 Very limited Slope Depth to saturated zone	 1.00 0.99
189A: Siren		 1.00 	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00
193A: Minocqua	 Very limited Depth to saturated zone Ponding	 1.00 1.00	saturated zone	 1.00 1.00	saturated zone	 1.00 1.00
337A: Plover	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00
368B: Mahtomedi	 Somewhat limited Too sandy	 0.72	 Somewhat limited Too sandy	 0.72	 Very limited Droughty	 1.00
Cress	Not limited	 	 Not limited 	i I	Somewhat limited Droughty	0.13
368C: Mahtomedi	 Somewhat limited Too sandy 	 0.72	 Somewhat limited Too sandy 	 0.72	 Very limited Droughty Slope	 1.00 0.04
Cress	 Not limited 	 	 Not limited 	 	 Somewhat limited Droughty Slope	 0.13 0.04
368D: Mahtomedi	 Somewhat limited Too sandy Slope	 0.72 0.50	 Somewhat limited Too sandy 	 0.72 	 Very limited Slope Droughty	 1.00 1.00
Cress	Somewhat limited Slope 	 0.50 	 Not limited 	 	 Very limited Slope Droughty	 1.00 0.13
368E: Mahtomedi	 Very limited Slope Too sandy	 1.00 0.72	 Somewhat limited Too sandy Slope	 0.72 0.22		 1.00 1.00
Cress	 Very limited Slope 	 1.00 	 Somewhat limited Slope 	 0.22 	 Very limited Slope Droughty 	 1.00 0.13

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	Golf fairways 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
380B: Cress	 Not limited 		 Not limited 	 	 Somewhat limited Droughty	 0.13
Rosholt	 Not limited 		 Not limited 		 Somewhat limited Droughty	0.01
380C: Cress	 Not limited 		 Not limited 	 	 Somewhat limited Droughty	 0.13 0.04
Rosholt	 Not limited 	 	 Not limited 	 	Slope Somewhat limited Slope Droughty	
380D: Cress	 Somewhat limited Slope 	0.68	 Not limited 	 	 Very limited Slope Droughty	 1.00 0.13
Rosholt	 Somewhat limited Slope	 0.68	 Not limited 	 	 Very limited Slope Droughty	 1.00 0.01
383B: Mahtomedi	 Somewhat limited Too sandy 	 0.72	 Somewhat limited Too sandy 	 0.72	 Very limited Droughty 	 1.00
383C: Mahtomedi	 Somewhat limited Too sandy	 0.72 	 Somewhat limited Too sandy	 0.72 	 Very limited Droughty Slope	 1.00 0.04
383D: Mahtomedi	 Somewhat limited Too sandy Slope	 0.72 0.68	 Somewhat limited Too sandy	 0.72 	 Very limited Slope Droughty	 1.00 1.00
392C: Rockmarsh	Depth to saturated zone Too stony Content of large	1.00	 Very limited Depth to saturated zone Too stony Content of large	1.00 0.50	!	į
Dairyland	stones Somewhat limited Too stony	 0.50	stones Somewhat limited Too stony	 0.50	Slope Droughty Somewhat limited Slope	0.37 0.01 0.37
	 	 	- - 	 	Droughty Depth to saturated zone	0.32 0.19
Makwa	Depth to saturated zone Too stony Content of large	1.00 0.50	saturated zone Too stony Content of large	1.00	Very limited Depth to saturated zone Content of large stones	 1.00 0.99
	stones		stones		 	

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trails		Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
396B: Friendship	 Very limited Too sandy 	 1.00	 Very limited Too sandy 	 1.00	 Somewhat limited Droughty Too sandy	 0.91 0.50
Wurtsmith	 Very limited Too sandy 	 1.00 	 Very limited Too sandy 	 1.00 	Somewhat limited Droughty Too sandy Depth to saturated zone	 0.87 0.50 0.19
Grayling	 Very limited Too sandy 	 1.00 	 Very limited Too sandy 	 1.00 	 Very limited Droughty Too sandy	 1.00 0.50
397A: Perchlake	 Very limited Depth to saturated zone Too sandy	 1.00 0.96	 Very limited Depth to saturated zone Too sandy	 1.00 0.96	saturated zone	1.00
399B: Grayling	 Very limited Too sandy 	 1.00 	 Very limited Too sandy 	 1.00	 Very limited Droughty Too sandy	 1.00 0.50
399C: Grayling	 Very limited Too sandy 	 1.00 	 Very limited Too sandy 	 1.00 	 Very limited Droughty Too sandy Slope	 1.00 0.50 0.04
399D: Grayling	 Very limited Too sandy Slope	 1.00 0.68	 Very limited Too sandy 	 1.00 	 Very limited Droughty Slope Too sandy	 1.00 1.00 0.50
406A: Loxley	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	Very limited Content of organic matter Depth to saturated zone Ponding	 1.00 1.00 1.00
407A: Seelyeville	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	 Very limited Content of organic matter Depth to saturated zone Ponding	 1.00 1.00
Markey	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	organic matter	 1.00 1.00 1.00

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	Golf fairways 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
440						
410A: Seelyeville	 Very limited	 	 Very limited	l I	 Very limited	l I
Seelyeville	Depth to	1.00	Depth to	1.00	Content of	1.00
	saturated zone		saturated zone		organic matter	
	Content of	1.00	Content of	1.00	Depth to	1.00
	organic matter	į	organic matter	į	saturated zone	İ
	Ponding	1.00	Ponding	1.00	Ponding	1.00
Cathro	 Very limited		 Very limited	 	 Very limited	
Cathro	Depth to	1.00	Depth to	1.00	<u>-</u>	1.00
	saturated zone		saturated zone		organic matter	
	Content of	1.00	Content of	1.00	Depth to	1.00
	organic matter	į	organic matter	į	saturated zone	İ
	Ponding	1.00	Ponding	1.00	Ponding	1.00
419A:]		 		 	
Seelyeville	 Verv limited		 Very limited	i	 Very limited	1
	Depth to	1.00	Depth to	1.00	<u>-</u>	1.00
	saturated zone	İ	saturated zone	į	organic matter	İ
j	Content of	1.00	Content of	1.00	Depth to	1.00
]	organic matter		organic matter		saturated zone	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
Cathro	 Verv limited	 	 Very limited	1	 Very limited	
	Depth to	1.00	Depth to	1.00	Content of	1.00
	saturated zone	į	saturated zone	į	organic matter	İ
]	Content of	1.00	Content of	1.00	Depth to	1.00
	organic matter		organic matter		saturated zone	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
Markey	 Very limited		 Very limited		 Very limited	
ļ	Depth to	1.00	Depth to	1.00	Content of	1.00
ļ	saturated zone		saturated zone		organic matter	
	Content of	1.00	Content of	1.00	Depth to	1.00
	organic matter		organic matter		saturated zone	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
421A:						
Dora	Very limited		Very limited		Very limited	
	Depth to	1.00	Depth to	1.00	Content of	1.00
	saturated zone	1 00	saturated zone	11 00	organic matter	11 00
	Content of organic matter	1.00	Content of organic matter	1.00	Depth to saturated zone	1.00
	Ponding	1.00	Ponding	1.00	Ponding	1.00
_						İ
Markey	-	:	Very limited	1	Very limited	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Content of organic matter	1.00
,	Content of	1.00	Content of	1.00	Depth to	1.00
	organic matter		organic matter		saturated zone	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
Seelyeville	 Very limited		 Very limited		 Very limited	
peetlestite	Depth to	1.00	Very limited Depth to	1.00	Very limited Content of	1.00
	saturated zone		saturated zone		organic matter	
	Content of	1.00	Content of	1.00	Depth to	1.00
i						
	organic matter		organic matter		saturated zone	

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
422A: Seelyeville	 Very limited Depth to	 1.00	 Very limited Depth to	 1.00	 Very limited Content of	 1.00
	saturated zone Content of organic matter Ponding	 1.00 1.00	saturated zone Content of organic matter Ponding	 1.00 1.00	organic matter Depth to saturated zone Ponding	 1.00 1.00
Cathro			 Very limited	į	 Very limited	 1.00
	saturated zone Content of organic matter	 1.00 	saturated zone Content of organic matter	 1.00 	saturated zone	1.00
Rondeau	Ponding Very limited Depth to	1.00 1.00	Ponding Very limited Depth to	1.00 1.00	Ponding Very limited Content of	1.00 1.00
	saturated zone Content of organic matter	 1.00	saturated zone Content of organic matter	1.00	organic matter Depth to saturated zone	1.00
426B:	Ponding 	1.00 	Ponding	1.00	Ponding 	1.00
Emmert	Somewhat limited Too sandy 	 0.88 	Somewhat limited Too sandy 	 0.88 	Very limited Droughty Content of large stones	 1.00 0.01
Mahtomedi	 Somewhat limited Too sandy	 0.72	 Somewhat limited Too sandy	 0.72	 Very limited Droughty	1.00
Menahga	 Not limited 	 	 Not limited 	 	 Somewhat limited Droughty 	0.49
426C: Emmert	 Somewhat limited Too sandy 	 0.88 	 Somewhat limited Too sandy 	 0.88 	 Very limited Droughty Slope Content of large stones	 1.00 0.04 0.01
Mahtomedi	 Somewhat limited Too sandy 	 0.72 	 Somewhat limited Too sandy 	 0.72 	 Very limited Droughty Slope	 1.00 0.04
Menahga	 Not limited 	 	 Not limited 	 	 Somewhat limited Droughty Slope	 0.49 0.04
426D: Emmert	 Somewhat limited Too sandy Slope	 0.88 0.68 	 Somewhat limited Too sandy 	 0.88 	 Very limited Droughty Slope Content of large stones	 1.00 1.00 0.01
Mahtomedi	 Somewhat limited Too sandy Slope	 0.72 0.68	 Somewhat limited Too sandy 	 0.72 	 Very limited	 1.00 1.00

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trails		Golf fairways	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
426D: Menahga	 Somewhat limited Slope 	 0.68	 Not limited 	 	 Very limited Slope Droughty	 1.00 0.49
430A: Freya	Very limited Depth to saturated zone Too sandy	 1.00 0.88	saturated zone	 1.00 0.88	saturated zone	 1.00 0.20
439B: Graycalm	 Somewhat limited Too sandy		 Somewhat limited Too sandy	 0.30	 Somewhat limited Droughty	0.29
Menahga	 Not limited 		 Not limited 		 Somewhat limited Droughty	0.49
439C: Graycalm	 Somewhat limited Too sandy 	 0.30	 Somewhat limited Too sandy 	 0.30	 Somewhat limited Droughty Slope	 0.29 0.04
Menahga	 Not limited 	 	 Not limited 	 	 Somewhat limited Droughty Slope	 0.49 0.04
439D: Graycalm	 Somewhat limited Slope Too sandy	0.68	 Somewhat limited Too sandy 	 0.30	 Very limited Slope Droughty	 1.00 0.29
Menahga	 Somewhat limited Slope 	 0.68 	 Not limited 	 	 Very limited Slope Droughty	 1.00 0.49
442C: Haugen	 Somewhat limited Too stony 	 0.50 	 Somewhat limited Too stony 	 0.50 		 0.19 0.03
Greenwood	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00
443D: Amery	 Very limited Slope Too stony	 1.00 0.50	 Somewhat limited Too stony	 0.50 	 Very limited Slope Content of large stones	1.00
Greenwood	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	 Golf fairways 	•
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
450-						1
459A:	 Very limited		 Very limited		 Very limited	
Loxley	Depth to	1.00	Depth to	1.00	: -	1.00
	saturated zone		saturated zone		organic matter	
	Content of	1.00	Content of	1.00	Depth to	1.00
	organic matter	İ	organic matter		saturated zone	Ì
	Ponding	1.00	Ponding	1.00	Ponding	1.00
Daisybay	 Very limited	1	 Very limited	:	 Very limited	
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Ponding 	1.00	Ponding 	1.00 	Ponding 	1.00
Dawson	Very limited		Very limited	:	Very limited	
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone Ponding	1.00	saturated zone Ponding	1.00	saturated zone Ponding	1.00
	Foliding		Foliding		Foliding	
461A: Bowstring						
Bowstring	Depth to	1.00	Very limited Depth to	1.00	Very limited Flooding	1.00
	saturated zone		saturated zone		Content of	1.00
	Content of	1.00	Content of	1.00	organic matter	i
	organic matter	į	organic matter	j	Depth to	1.00
	Ponding	1.00	Ponding	1.00	saturated zone	
	Flooding	0.40	Flooding	0.40	Ponding	1.00
465A:		İ				
Newson	Very limited	1	Very limited	:	Very limited	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Ponding	1.00	Ponding	1.00	Ponding	1.00
Washan						
Meehan	Depth to	1.00	Very limited Depth to	1.00	Very limited Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Too sandy	1.00	Too sandy	1.00	Droughty	0.94
	į	į	<u> </u>	į	Too sandy	0.50
469E:	 		 	 		1
Bigisland	Very limited	į	Somewhat limited	į	Very limited	į
	Slope	1.00	Too sandy	0.68	Slope	1.00
	Too sandy Too stony	0.68 0.50	Too stony Slope	0.50		1.00
	Content of large	1	Content of large		•	0.99
	stones		stones		Gravel content	0.65
Milaca	 Verv limited		 Somewhat limited		 Very limited	
	Slope	1.00		0.50	: -	1.00
	Too stony	0.50	Slope	0.32	: -	0.19
	_	į		į	saturated zone	į
471B:	 		 		 	
Dairyland	Somewhat limited	İ	Somewhat limited	İ	Somewhat limited	Ì
	Too stony	0.50	Too stony	0.50		0.32
		1			Depth to saturated zone	0.19

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trails		Golf fairways 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
471B: Emmert	 Somewhat limited Too stony	0.50	 Somewhat limited Too stony	0.50	 Very limited Droughty Gravel content Content of large	 1.00 0.10 0.01
471C: Dairyland	 Somewhat limited Too stony 	 0.50	 - Somewhat limited Too stony -	 0.50 	stones	 0.37 0.32 0.19
Emmert	 Somewhat limited Too sandy Too stony	0.88	Somewhat limited Too sandy Too stony	0.88	 Very limited Droughty Slope Content of large stones	 1.00 0.37 0.01
472A: Rockmarsh	Depth to saturated zone Too stony Flooding	1.00 0.50 0.40	 Very limited Depth to saturated zone Too stony Flooding Content of large stones	1.00 0.50 0.40	Depth to saturated zone	 1.00 1.00 1.00 0.01
Clemens	 Very limited Depth to saturated zone Too stony Flooding	 1.00 0.50 0.40	 Very limited	 1.00 0.50 0.40	 Very limited Flooding Depth to saturated zone	 1.00 1.00
473A: Dairyland	 Somewhat limited Too stony	 0.50 	 Somewhat limited Too stony 	 0.50 	 Somewhat limited Droughty Depth to saturated zone	 0.32 0.19
Skog	 Somewhat limited Too stony	 0.50	 Somewhat limited Too stony	 0.50	 Somewhat limited Droughty	 0.96
484A: Greenwood	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00
Beseman	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	Very limited Content of organic matter Depth to saturated zone Ponding	 1.00 1.00

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	Golf fairways	3
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Ī		<u> </u>	IIMICING Teacures	
485C:	İ	i		į		i
Lupton	Very limited		Very limited		Very limited	
	Depth to	1.00	Depth to	1.00	Content of	1.00
	saturated zone		saturated zone		organic matter	
	Content of	1.00	Content of	1.00		1.00
	organic matter		organic matter	ļ	saturated zone	
Tawas	 Very limited		 Very limited		 Very limited	
lawas	Depth to	1.00		1.00	-	1.00
	saturated zone	1	saturated zone	1	organic matter	1
	Content of	1.00	Content of	1.00	_	1.00
	organic matter		organic matter		saturated zone	
	Ponding	1.00	Ponding	1.00		1.00
		İ		ĺ		İ
495B:						
Karlsborg	•		Somewhat limited		Somewhat limited	
	Too sandy	0.81		0.81	-	0.75
	Depth to	0.44	Depth to	0.44	·	
	saturated zone		saturated zone		Droughty	0.26
Grettum	 Somewhat limited		 Somewhat limited		 Somewhat limited	-
GI ec cum	Too sandy	0.81		0.81		0.61
Perida	Somewhat limited	i	Somewhat limited	i	Somewhat limited	i
	Too sandy	0.81	Too sandy	0.81	Droughty	0.44
495C:	!					-
Karlsborg			Somewhat limited	!	Somewhat limited	
	Too sandy	0.81		0.81	-	0.75
	Depth to	0.44	Depth to	0.44		
	saturated zone		saturated zone		Droughty Slope	0.26
	 		 	l	blobe	0.04
Grettum	Somewhat limited	i	Somewhat limited	i	Somewhat limited	i
	Too sandy	0.81	Too sandy	0.81	Droughty	0.61
		İ	İ	ĺ	Slope	0.04
		1				1
Perida			Somewhat limited		Somewhat limited	
	Too sandy	0.81	Too sandy	0.81	J 1	0.44
	 		 		Slope	0.04
495D:			 	i		1
Karlsborg	Somewhat limited	i	Somewhat limited	İ	 Very limited	i
-	Too sandy	0.81	Too sandy	0.81	_	1.00
	Slope	0.68	Depth to	0.44	Depth to	0.75
	Depth to	0.44	saturated zone		saturated zone	
	saturated zone	1			Droughty	0.26
				ļ		
Grettum	!	1	Somewhat limited	1	Very limited	
	Too sandy	0.81	Too sandy	0.81	-	1.00
	Slope	0.68	 		Droughty	0.61
Perida		İ	 Somewhat limited	i	 Very limited	i
• •	Too sandy	0.81	!	0.81	-	1.00
	Slope	0.68		į	Droughty	0.44
496B:	[1	[1
Karlsborg			Somewhat limited	1	Somewhat limited	
	Too sandy	0.81	· -	0.81	-	0.75
	Depth to	0.44	: -	0.44		10.00
	saturated zone	1	saturated zone	1	Droughty	0.26

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	 Golf fairways 	•
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
496C:	 	<u> </u> 	 		 	
Karlsborg	Somewhat limited Too sandy Depth to saturated zone	 0.81 0.44 	Somewhat limited Too sandy Depth to saturated zone	 0.81 0.44 		 0.75 0.26 0.04
496D: Karlsborg	 Somewhat limited Too sandy Slope Depth to saturated zone	 0.81 0.68 0.44	 Somewhat limited Too sandy Depth to saturated zone	 0.81 0.44 		 1.00 0.75 0.26
497A:					 	
Meenon	Very limited Depth to saturated zone Too sandy	 1.00 0.81	Very limited Depth to saturated zone Too sandy	 1.00 0.81	Very limited Depth to saturated zone Droughty	 1.00 0.41
			1			
521A: Dody	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00
523A:	 		 		 	
Nokasippi	Very limited Depth to saturated zone Ponding	 1.00 1.00	Very limited Depth to saturated zone Ponding	 1.00 1.00	Very limited Depth to saturated zone Ponding	1.00
529B:	 		 		 	
Perida	 Very limited Too sandy 	1.00	 Very limited Too sandy 	 1.00 	Somewhat limited Droughty Too sandy	0.62
531A: Stengel	 Very limited Depth to saturated zone Too sandy	 	 Very limited Depth to saturated zone Too sandy	 1.00 0.81	 Very limited Depth to saturated zone Droughty	 1.00 1.00
542B: Haugen, very stony	 Somewhat limited Too stony 	 0.50 	 Somewhat limited Too stony 	 0.50 	Somewhat limited Depth to saturated zone Content of large stones	 0.19 0.03
Haugen	 Not limited 	 	 Not limited 	 	Somewhat limited Depth to saturated zone Content of large stones	 0.19 0.03

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	S	Off-road motorcycle trai	ls	 Golf fairways 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
542C: Haugen, very stony		 0.50 	 Somewhat limited Too stony 	 0.50 	 Somewhat limited Depth to saturated zone Slope Content of large stones	 0.19 0.04 0.03
Haugen	 Not limited 	 	 Not limited 	 	Somewhat limited Depth to saturated zone Slope Content of large stones	 0.19 0.04 0.03
544F: Menahga	 Very limited Slope	 1.00	 Somewhat limited Slope	 0.96	 Very limited Slope Droughty	1.00
Mahtomedi	 Very limited Slope Too sandy	 1.00 0.72	 Somewhat limited Slope Too sandy	 0.96 0.72	 Very limited Slope Droughty	 1.00 1.00
553B: Branstad	 Not limited 	 	 Not limited 	 	 Somewhat limited Depth to saturated zone	0.19
553C: Branstad	 Not limited 	 	 Not limited 	 	 Somewhat limited Depth to saturated zone Slope	0.19
553D: Branstad	 Somewhat limited Slope	 0.02 	 Not limited	 	 Very limited Slope Depth to saturated zone	 1.00 0.19
555A: Fordum	 Very limited Depth to saturated zone Ponding Flooding	 1.00 1.00 0.40	 Very limited Depth to saturated zone Ponding Flooding	 1.00 1.00 0.40	 Very limited Flooding Depth to saturated zone Ponding	 1.00 1.00 1.00
557B: Shawano	 Very limited Too sandy 	 1.00	 Very limited Too sandy 	 1.00	 Somewhat limited Droughty 	0.46
557C: Shawano	 Very limited Too sandy 	 1.00 	 Very limited Too sandy 	 1.00 	 Somewhat limited Droughty Slope	0.46
557D: Shawano	 Very limited Too sandy Slope	 1.00 0.68	 Very limited Too sandy 	 1.00 	 Very limited Slope Droughty	 1.00 0.46

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	 Golf fairways 	1
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
586A: Chelmo	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00
600A: Haplosaprists	 Not rated 	 	 Not rated 	 	 Not rated 	
Psammaquents	 Not rated 		 Not rated 		 Not rated 	
615B: Cress	 Not limited 	 	 Not limited 	 	 Somewhat limited Droughty 	0.13
615C: Cress	 Not limited 	 	 Not limited 	 	 Somewhat limited Droughty Slope	0.13
615D: Cress	 Somewhat limited Slope 	 0.68	 Not limited 	 	 Very limited Slope Droughty	 1.00 0.13
620C: Lundeen	 Somewhat limited Too stony	 0.50	 Somewhat limited Too stony	0.50	 Somewhat limited Depth to bedrock	 0.46
Haustrup	 Somewhat limited Too stony	 0.50	 Somewhat limited Too stony	0.50	 Very limited Depth to bedrock Droughty	 1.00 0.14
Rock outcrop	 Not rated	 	 Not rated	 	 Not rated	
621A: Bjorkland	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00
623A: Capitola	 Very limited Depth to saturated zone Ponding Too stony	 1.00 1.00 0.50	 Very limited Depth to saturated zone Ponding Too stony	 1.00 1.00 0.50	Very limited Depth to saturated zone Ponding	 1.00 1.00
624A: Ossmer	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00
631A: Giese	 Very limited Depth to saturated zone Ponding Too stony	 1.00 1.00 0.50	 Very limited Depth to saturated zone Ponding Too stony	 1.00 1.00 0.50	 Very limited Depth to saturated zone Ponding	 1.00 1.00

Table 15b.--Recreational Development--Continued

Map symbol and soil name	 Paths and trail 	s	Off-road motorcycle trai	ls	Golf fairways		
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
632A: Aftad	 Not limited 	 	 Not limited 	 	 Somewhat limited Depth to saturated zone	 0.19	
632B: Aftad	 Not limited 	 	 Not limited 	 	 Somewhat limited Depth to saturated zone	 0.19	
632C: Aftad	 Not limited 	 	 Not limited 	 	 Somewhat limited Depth to saturated zone Slope	0.19	
634C: Drylanding	 Somewhat limited Content of large stones 		 Somewhat limited Content of large stones 		 Very limited Depth to bedrock Droughty Content of large stones	1.00	
Beartree	Depth to saturated zone	1	 Very limited Depth to saturated zone Ponding 	 1.00 1.00 	Depth to	 1.00 1.00 1.00 0.95	
Rock outcrop	 Not rated 	 	 Not rated 	 	 Not rated 		
635C: Drylanding	 Somewhat limited Content of large stones 		 Somewhat limited Content of large stones 		 Very limited Depth to bedrock Droughty Content of large stones	1.00	
Beartree	 Very limited Depth to saturated zone Ponding	 1.00 1.00 	 Very limited Depth to saturated zone Ponding	 1.00 1.00	Very limited Depth to bedrock Depth to saturated zone Ponding Droughty	 1.00 1.00 1.00 0.95	
Rock outcrop	 Not rated 	 	 Not rated 	 	 Not rated 		
648B: Sconsin	 Somewhat limited Depth to saturated zone	 0.44 	 Somewhat limited Depth to saturated zone	 0.44 	 Somewhat limited Depth to saturated zone	 0.75 	
669D: Fremstadt, stony	 Somewhat limited Slope Too sandy Too stony	 0.82 0.50 0.50	 Somewhat limited Too sandy Too stony 	 0.50 0.50 	 Very limited Slope Droughty 	 1.00 0.01 	

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	 Golf fairways 	3
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
669D: Pomroy	 Somewhat limited Slope Too sandy	 0.82 0.50	 Somewhat limited Too sandy 	 0.50	Very limited Slope Depth to saturated zone	 1.00 0.19
671B: Spoonerhill, stony	 Not limited 	 	 Not limited 	 	 Somewhat limited Droughty Depth to	 0.42 0.19
Spoonerhill	 Not limited 	 	 Not limited 	 	saturated zone Content of large stones Somewhat limited Droughty Depth to saturated zone Content of large stones	 0.42 0.19
706A: Winterfield	 Very limited Depth to saturated zone Flooding	 1.00 0.40	Very limited Depth to saturated zone Flooding	 1.00 0.40	 Very limited Flooding Depth to saturated zone Droughty	 1.00 1.00
Totagatic	 Very limited Depth to saturated zone Ponding Flooding	 1.00 1.00 0.40	 Very limited Depth to saturated zone Ponding Flooding	 1.00 1.00 0.40	 Very limited Flooding Depth to saturated zone Ponding Droughty	 1.00 1.00 1.00 0.37
715A: Mora	Very limited Depth to saturated zone Too stony	 1.00 0.50	Very limited Depth to saturated zone Too stony	 1.00 0.50	 Very limited Depth to saturated zone	 1.00
717B: Milaca	 Somewhat limited Too stony 	 0.50 	 Somewhat limited Too stony 	 0.50 	 Somewhat limited Depth to saturated zone	 0.19
717C: Milaca	 Very limited Water erosion Too stony	 1.00 0.50 	 Very limited Water erosion Too stony	 1.00 0.50 	 Somewhat limited Depth to saturated zone Slope	 0.19 0.04
720F: Haustrup	 Somewhat limited Too stony Slope	 0.50 0.18 	 Somewhat limited Too stony 	 0.50 	 Very limited Depth to bedrock Slope Droughty	 1.00 1.00 0.14

Table 15b.--Recreational Development--Continued

Map symbol and soil name	 Paths and trail 	s	 Off-road motorcycle trai 	ls	 Golf fairways 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
720F: Lundeen	 	 0.50 0.18	 Somewhat limited	 0.50	 Very limited	 1.00 0.46
Rock outcrop	 Not rated		 Not rated	 	 Not rated	
726B: Sissabagama	 Somewhat limited Too sandy 	 0.81	 Somewhat limited Too sandy 	 0.81	 Somewhat limited Droughty 	 0.42
742B: Milaca	 Somewhat limited Too stony 	 0.50 			 Somewhat limited Depth to saturated zone	 0.19
742C: Milaca	 Somewhat limited Too stony 		 0.50 	Somewhat limited Depth to saturated zone Slope	 0.19 0.04	
742D: Milaca	 Somewhat limited Too stony Slope	 0.50 0.02	 Somewhat limited Too stony	 0.50 	 Very limited Slope Depth to saturated zone	 1.00 0.19
755A: Moppet	 Not limited 	 	 Not limited 	 	 Somewhat limited Flooding	0.60
Fordum	 Very limited Depth to saturated zone Ponding Flooding	 1.00 1.00 0.40	saturated zone	 1.00 1.00 0.40	Depth to saturated zone	 1.00 1.00 1.00
771A: Lenroot	 Somewhat limited Too sandy 	 0.72 	 Somewhat limited Too sandy 	 0.72 	Somewhat limited Droughty Depth to saturated zone	 0.99 0.19
812B: Mora	 Very limited Depth to saturated zone Too stony	 1.00 0.50	 Very limited Depth to saturated zone Too stony	 1.00 0.50	 Very limited Depth to saturated zone	 1.00
825A: Meehan	 Very limited Depth to saturated zone Too sandy	 1.00 1.00	 Very limited Depth to saturated zone Too sandy	 1.00 1.00	saturated zone	 1.00 0.94 0.50

Table 15b.--Recreational Development--Continued

Map symbol and soil name	 Paths and trail 	s	 Off-road motorcycle trai	ls	 Golf fairways 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
896A: Wurtsmith	 Very limited Too sandy 	 1.00 	 Very limited Too sandy 	 1.00 	 Somewhat limited Droughty Too sandy Depth to saturated zone	 0.94 0.50 0.19
980A: Soderbeck	Very limited Depth to saturated zone Too stony Content of large stones	1.00 0.50	saturated zone Too stony	1.00	saturated zone Content of large	 1.00 0.99 0.97 0.61
1070C: Fremstadt	 Not limited 	 	 Not limited 	 	 Somewhat limited Slope Droughty	 0.16 0.01
Cress	 Not limited 	 	 Not limited 	 	 Somewhat limited Droughty Slope	 0.13 0.04
1070D: Fremstadt	 Somewhat limited Slope 	 0.92	 Not limited 	 	 Very limited Slope Droughty	 1.00 0.01
Cress	 Somewhat limited Slope 	 0.68 	 Not limited 	 	 Very limited Slope Droughty	 1.00 0.13
1080B: Spoonerhill	 Not limited 	 	 Not limited 	 	 Somewhat limited Droughty Depth to saturated zone Content of large	 0.42 0.19 0.01
Spoonerhill, stony	 Not limited 	 	 Not limited 	 	stones Somewhat limited Droughty Depth to saturated zone Content of large	 0.42 0.19
Cress	 Not limited 	 	 Not limited 	 	stones Somewhat limited Droughty	 0.13
2002: Udorthents, earthen dams	 Not rated 	 	 Not rated 	 	 Not rated 	
2015: Pits	 Not rated 	 	 Not rated 	 	 Not rated 	

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	 Golf fairways 	3
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
2050:	 		 		 	
Landfill	Not rated		Not rated		Not rated	
3011A:		į		İ		į
Barronett		1	Very limited		Very limited	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Ponding	1.00	Ponding	1.00	Ponding	1.00
3082E:			 		 	
Braham	Somewhat limited	İ	Somewhat limited	i	 Very limited	
	Too sandy	0.72	Too sandy	0.72	Slope	1.00
	Slope	0.50				
Shawano	 Very limited		 Very limited		 Very limited	
	Too sandy	1.00	Too sandy	1.00	Slope	1.00
	Slope	1.00	Slope	0.01	Droughty	0.46
3114A:	İ	İ		İ		
Saprists			Very limited	1	Very limited	
	Depth to	1.00	Depth to saturated zone	1.00	Ponding Content of	1.00
	Content of	1.00	Content of	1.00	organic matter	
	organic matter	i	organic matter	į	Depth to	1.00
	Ponding	1.00	Ponding	1.00	saturated zone	
Aquents	 Very limited		 Very limited		 Very limited	Ì
	Depth to	1.00	Depth to	1.00	Ponding	1.00
	saturated zone Ponding	1.00	saturated zone Ponding	1.00	Depth to saturated zone	1.00
		į		į		į
Aquepts	Depth to	1.00	Very limited Depth to	1.00	Very limited Ponding	1.00
	saturated zone		saturated zone		Depth to	1.00
	Ponding	1.00	Ponding	1.00	saturated zone	Ì
3125A:			 		 	
Meehan	Very limited		Very limited		Very limited	
	Depth to	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Too sandy	0.81	Too sandy	0.81	Droughty	0.88
3126A:			 			
Wurtsmith	Somewhat limited	İ	Somewhat limited	i	Somewhat limited	
	Too sandy	0.60	Too sandy	0.60		0.83
			 		Depth to saturated zone	0.19
2210D.						
3312B: Glendenning, very			 		 	
stony	 Very limited	İ	 Very limited	İ	 Very limited	i
	Depth to	1.00		1.00		1.00
	saturated zone	0.50	saturated zone	0.50	saturated zone Content of large	0 03
	Too stony		Too stony 		stones	
Glendenning	 Verv limited		 Very limited		 Very limited	
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	1
					Content of large	0.01
	1	1	1	1	stones	1

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	Golf fairways 		
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
3336A: Fenander	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	
3403A:	 	1	 		 		
Loxley	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	Very limited Content of organic matter Depth to saturated zone Ponding	 1.00 1.00 	
Beseman	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	saturated zone Content of organic matter	 1.00 1.00 	organic matter Depth to saturated zone	 1.00 1.00 	
Dawson	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	
3429B: Lara	 Somewhat limited Too sandy Depth to saturated zone	 0.76 0.44	 Somewhat limited Too sandy Depth to saturated zone	 0.76 0.44		0.75	
3429C: Lara	 Somewhat limited Too sandy Depth to saturated zone	 0.76 0.44 	 Somewhat limited Too sandy Depth to saturated zone	 0.76 0.44 		 0.75 0.27 0.04	
3446A: Newson	 Very limited Depth to saturated zone Ponding	 1.00 1.00	saturated zone	 1.00 1.00	saturated zone	1.00	
3448B: Grettum	 Somewhat limited Too sandy 	 0.81	 Somewhat limited Too sandy 	 0.81	 Somewhat limited Droughty	 0.61	
3448C: Grettum	 Somewhat limited Too sandy 	 0.81 	 Somewhat limited Too sandy 	 0.81 	 Somewhat limited Droughty Slope	 0.61 0.04	
3510B: Pomroy	 Somewhat limited Too sandy Too stony	 0.50 0.50	 Somewhat limited Too sandy Too stony	 0.50 0.50	: -	 0.19 	

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trail	s	Off-road motorcycle trai	ls	 Golf fairways 	
	Rating class and	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3510B: Fremstadt	 Somewhat limited Too sandy Too stony	0.50	 Somewhat limited Too sandy Too stony	 0.50 0.50	 Somewhat limited Droughty	 0.01
Fremstadt, stony	 Somewhat limited Too sandy	0.50	 Somewhat limited Too sandy	 0.50	 Somewhat limited Droughty	0.01
3510C: Pomroy	 Somewhat limited Too sandy Too stony	 0.50 0.50	 Somewhat limited Too sandy Too stony	 0.50 0.50	Somewhat limited Depth to saturated zone Slope	0.19
Fremstadt	 Somewhat limited Too sandy 	 0.50 	 Somewhat limited Too sandy 	 0.50 	 Somewhat limited Slope Droughty	 0.16 0.01
Fremstadt, stony	 Somewhat limited Too sandy Too stony	 0.50 0.50	 Somewhat limited Too sandy Too stony	 0.50 0.50	 Somewhat limited Slope Droughty	 0.16 0.01
3511A: Bushville	 Very limited Depth to saturated zone Too sandy	 1.00 0.30	 Very limited Depth to saturated zone Too sandy	 1.00 0.30	 Very limited Depth to saturated zone	1.00
3516A: Slimlake	 Not limited 	; 	 Not limited 	 	 Somewhat limited Droughty	0.21
3625A: Lino	 Very limited Depth to saturated zone Too sandy	 1.00 0.31	 Very limited Depth to saturated zone Too sandy	 1.00 0.31	 Very limited Depth to saturated zone Droughty	 1.00 0.19
3626A: Crex	 Not limited 	 	 Not limited 	 	 Somewhat limited Droughty Depth to saturated zone	 0.23 0.19
3629B: Perida	 Somewhat limited Too sandy 	0.81	 Somewhat limited Too sandy	 0.81	 Somewhat limited Droughty	0.44
3636B: Plainbo	 Very limited Too sandy 	 1.00 	 Very limited Too sandy 	 1.00 	 Very limited Droughty Too sandy Depth to bedrock	 1.00 0.50 0.46
3636C: Plainbo	 Very limited Too sandy 	 1.00 	 Very limited Too sandy 	 1.00 	 Very limited Droughty Too sandy Depth to bedrock Slope	 1.00 0.50 0.46 0.04

Table 15b.--Recreational Development--Continued

Map symbol and soil name	Paths and trails		Off-road motorcycle trai	ls	Golf fairways			
	Rating class and	Value	Rating class and	Value	Rating class and	Value		
	limiting features	1	limiting features		limiting features	1		
M-W:			 		 			
Miscellaneous water	Not rated	į	Not rated	į	Not rated	į		
W:			 		 			
Water	Not rated		Not rated		Not rated			

Table 16.--Wildlife Habitat

(See text for definitions of terms used in this table. Absence of an entry indicates that no rating is applicable)

	1	Po	tential	for habi	tat elem	ents		Potential as habitat for		
Map symbol	Grain	1	Wild				l	Open-	Wood-	Wetland
and	and	Grasses	herba-	Hard-	Conif-	Wetland	Shallow	land	land	wild-
soil name	seed	and	ceous	wood	erous	plants	water	wild-	wild-	life
	crops	legumes	plants	trees	plants	i	areas	life	life	i
	i -	İ	i -	İ	İ	İ	İ		İ	İ
3A:	İ	i	İ	İ	İ	İ	İ	İ	İ	į
Totagatic	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
5		i	İ	İ	İ	İ	İ	İ	İ	į
Bowstring	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
	į	į	İ	İ	İ	İ	İ	İ	İ	İ
Ausable	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
12A:										
Makwa	Very	Very	Good	Fair	Fair	Good	Good	Fair	Fair	Good
	poor	poor								
22A:										
Comstock	Fair	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair
27A:		!					ļ			!
Scott Lake	Fair	Good	Good	Good	Good	Poor	Very	Good	Good	Very
							poor			poor
		!			ļ					!
28B:		!			ļ					!
Haugen, very stony	: -	Poor	Good	Good	Good	Poor	Very	Poor	Good	Very
	poor						poor			poor
Haugen	Good	Good	Good	Good	Good	Poor	Very	Good	Good	Very
			 				poor	 		poor
Posholt rows store	Cood	 Good	 Good	Good	 Good	Poor	170	 Good	 Good	170
Rosholt, very stony	GOOG	Good	GOOG	GOOG	GOOG	POOL	Very	GOOG	GOOG	Very
	 	 	 	1	l l	 	poor	 	1	poor
Rosholt	Good	Good	 Good	Good	 Good	Poor	 Very	 Good	Good	Very
KOBHOIC	6000	0000	l GOOG	0000	0000		poor	l GOOG	0000	poor
			 	İ	l I		1001	 	İ	
28C:			 	İ	İ		 	 	İ	i
Haugen, very stony	Fair	Good	Good	Good	Good	Very	Very	Good	Good	Very
1 1 1 1 1 1				İ	İ	poor	poor		İ	poor
	İ	i	İ	İ	İ	i -	, - 	İ	İ	i
Haugen	Good	Good	Good	Good	Good	Poor	Very	Good	Good	Very
	İ	İ	ĺ	İ		İ	poor	ĺ	İ	poor
Rosholt, very stony	Good	Good	Good	Good	Good	Poor	Very	Good	Good	Very
							poor			poor
Rosholt	Fair	Good	Good	Good	Good	Very	Very	Good	Good	Very
						poor	poor			poor
38A:										
Rosholt	Good	Good	Good	Good	Good	Poor	Very	Good	Good	Very
		1	 	1	I I		poor	 	1	poor
30P.		1	 	1	I I		l I	 	1	1
38B:	 Cood	 Cood	l Cood	Cood	Cood	Poo-	17077	 Good	Cood	 Vorus
Rosholt	GOOG	Good	Good	Good	Good	Poor	Very	Good	Good	Very
	 	I I	 	1	I I	 	poor	 	1	poor
38C:	 	I I	 	1	I I	 	I I	 	1	1
Rosholt	 Fair	 Good	 Good	Good	Good	Poor	 Very	 Good	Good	 Very
							poor			poor
		İ	! 		! 	! 	2001	! 		
	I	I	I	T.	I .	I	I	I	T.	T.

Table 16.--Wildlife Habitat--Continued

		Po	tential	for habi	tat elem	ents		Potenti	al as ha	bitat for
Map symbol and soil name	Grain and seed crops	 Grasses and legumes	ceous	wood	1	 Wetland plants 	 Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
38D: Rosholt	 Poor 	 Fair 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Fair 	 Good 	 Very poor
42D: Amery	 Fair 	 Good 	 Good	 Good	 Good 	 Very poor	 Very poor	 Good 	 Good 	 Very poor
43B: Antigo	 Good 	 Good 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Good 	 Good 	 Very poor
43C: Antigo	 Fair 	 Good 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Good 	 Good 	 Very poor
63A: Crystal Lake	 Good 	 Good 	 Good 	 Good	 Good 	 Poor 	 Poor 	 Good 	 Good 	 Poor
63B: Crystal Lake	 Good	 Good	 Good	 Good	 Good	 Poor 	 Poor 	 Good	 Good	 Poor
63C: Crystal Lake	 Fair 	 Good 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Good 	 Good 	 Very poor
64A: Totagatic	 Poor	 Poor	 Poor	 Poor	 Poor	 Good	 Good	 Poor	 Poor	 Good
Winterfield	Poor	Fair	Fair	Fair	Fair	Fair	Fair	Fair	Fair	Fair
69C: Keweenaw	 Poor 	 Fair 	 Good	 Good	 Good	 Very poor	 Very poor	 Fair 	 Good	 Very poor
Sayner	 Poor 	 Poor 	 Fair 	 Poor 	 Poor 	 Very poor	 Very poor	 Poor 	 Poor 	 Very poor
Vilas	 Very poor	 Poor 	 Fair 	 Poor 	 Poor 	 Very poor	 Very poor	 Poor 	 Poor 	 Very poor
69E: Keweenaw	 Poor	 Fair 	 Good	 Good	 Good	 Very poor	 Very poor	 Fair 	 Good	 Very poor
Sayner	 Very poor	 Poor 	 Fair 	 Poor 	 Poor 	 Very poor	 Very poor	 Poor 	 Poor 	 Very poor
Vilas	 Very poor	 Poor 	 Fair 	 Poor 	 Poor 	 Very poor	 Very poor 	 Poor 	 Poor 	 Very poor
82B: Cutaway	 Poor	 Fair 	 Good 	 Good	 Good 	 Very poor	 Very poor	 Fair 	 Good 	 Very poor
Branstad	 Fair 	 Good 	 Good 	 Good 	 Good 	 Very poor 	 Very poor 	 Good 	 Good 	 Very poor

Table 16.--Wildlife Habitat--Continued

		Po		for habi	tat elem	ents		<u>'</u>		bitat for-
Map symbol	Grain		Wild					Open-	Wood-	Wetland
and	and	Grasses	herba-	Hard-	Conif-	Wetland	Shallow	land	land	wild-
soil name	seed	and	ceous	wood	erous	plants	water	wild-	wild-	life
	crops	legumes	plants	trees	plants		areas	life	life	
82C:										
Cutaway	Poor	Fair	Good	Good	Good	Very	Very	Fair	Good	Very
		ĺ	ĺ	İ	İ	poor	poor	ĺ	İ	poor
		ĺ	ĺ	İ	İ	İ	ĺ	ĺ	İ	İ
Branstad	Good	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor
i		İ	İ	i	İ	į	İ	İ	i	İ
83A:		İ	İ	İ	İ	i	İ	İ	i	i
Smestad	Fair	Fair	Good	Good	Good	Fair	Fair	Fair	Good	Fair
		i			İ				į	
85B:		! 	! 	i	i	i	! 	! 	1	i
Taylor	Good	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor
14,101		0000	0000			1	1 001	000		1
85C:		 	 	1	I I	I I	 	 	1	l I
Taylor	 Pair	Good	 Good	Good	 Good	Voru	 Very	 Good	Good	Voru
Taylor	raii	GOOG	GOOG	GOOG	GOOG	Very	: -	GOOG	GOOG	Very
			 	1		poor	poor	 	1	poor
063.		 	 	1	I I		 	 	1	1
86A:	Deer:	 made:	l made:	 Bad	 Tallet	l Canada	 Dane:	l made:	 m = 3	Good
Indus	Poor	Fair	Fair	Fair	Fair	Good	Poor	Fair	Fair	Good
Alango	Fair	Good	Good	Good	Good	Poor	Good	Good	Good	Poor
89A:										
Wildwood	-	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
	poor									
96B:										
Karlsborg	Fair	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor
96C:										
Karlsborg	Poor	Good	Good	Good	Good	Very	Very	Fair	Good	Very
						poor	poor			poor
96D:										
Karlsborg	Poor	Good	Good	Good	Good	Very	Very	Fair	Good	Very
						poor	poor			poor
100B:										
Menahga	Poor	Poor	Fair	Poor	Fair	Very	Very	Poor	Fair	Very
		ĺ	ĺ	İ		poor	poor		Ì	poor
		ĺ	ĺ	İ		İ	ĺ		Ì	İ
100C:		ĺ	ĺ	İ	İ	İ	ĺ	ĺ	İ	İ
Menahga	Poor	Poor	Fair	Poor	Fair	Very	Very	Poor	Fair	Very
i		İ	İ	i	İ	poor	poor	İ	i	poor
i		İ	İ	İ	İ	i	 İ	İ	i	i
100D:		İ	İ	İ	İ	i	İ	İ	i	i
Menahga	Verv	Poor	Fair	Poor	Fair	Very	Very	Poor	Fair	Very
	poor					poor	poor			poor
		! 	! 	i	i			! 	1	
120B:		ĺ							ì	i
Kost	Poor	Fair	Fair	Fair	Fair	Very	Very	Poor	Fair	Very
	= 	, - 	, - 			poor	poor	- 		poor
		l I	! 			POOL	2001	! 		2001
127D:		I I	 	1	1	1	I 	 	1	1
Amery	 Fair	Good	 Good	Good	Good	Very	 Very	 Good	Good	Verv
vmer A	l rart	3 000	3 000	3000	J	: -	: -	J ooa 	J	Very
		l I	 	I I	 	poor	poor	 	1	poor
		l I m arkar		04	Good	 37 a mr =	 37.0 mr -	 Fair	Good	
Poghol +										
Rosholt	Poor	Fair	Good	Good	GOOG	Very poor	Very poor	Fail	GOOG	Very poor

Table 16.--Wildlife Habitat--Continued

		Po	tential	for habi	tat elem	ents		Potenti	al as ha	bitat for
Map symbol and soil name	Grain and seed crops	Grasses and	ceous	wood		 Wetland plants	 Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
127E:	 							 	 	
Amery	poor	Very poor 	Good 	Good 	Good 	Very poor 	Very poor 	Poor 	Fair 	Very poor
Rosholt	Very poor	Poor 	Good	Good	Good	Very poor	Very poor	Poor	Good	Very poor
151A: Bluffton	 Poor	 Poor	 Poor	 Poor	 Poor	 Good	 Good	 Poor	 Poor	 Good
152A: Alstad	 Good	 Good	 Good	Good	 Good	 Fair	 Fair	 Good	 Good	 Fair
154E: Cushing	 Poor 	 Fair 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Fair 	 Good 	 Very poor
156B: Magnor, very stony	 Very poor	 Poor 	 Good 	 Good	 Good 	 Poor 	 Poor 	 Poor 	 Good 	 Poor
Magnor	 Fair 	 Good 	 Good 	Good	 Good 	 Poor 	 Poor 	 Good 	 Good 	 Poor
157B: Freeon, very stony	 Very poor	 Poor 	 Good 	 Good 	 Good 	 Poor 	 Poor 	 Poor 	 Good 	 Poor
Freeon	 Good 	 Good 	 Good 	 Good 	 Good 	 Poor 	 Poor 	 Good 	 Good 	 Poor
157C: Freeon, very stony	 Very poor	 Poor 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Poor 	 Good 	 Very poor
Freeon	 Fair 	 Good 	 Good 	 Good 	 Good 	 Very poor	 Very poor 	 Good 	 Good 	 Very poor
160A: Oesterle	 Fair 	 Good 	 Good	 Good	 Good 	 Poor	 Poor 	 Good	 Good 	 Poor
165B: Elderon	 Poor 	 Fair 	 Fair 	 Poor 	 Poor 	 Very poor	 Very poor	 Fair 	 Poor 	 Very poor
185B: Tradelake	 Good	 Good	 Good	Good	 Good	 Poor	 Poor	 Good	 Good	 Poor
Taylor	 Good 	 Good 	 Good 	 Good	 Good 	 Poor 	 Poor 	 Good 	 Good 	 Poor
185C: Tradelake	 Fair 	 Good	 Good	 Good 	 Good 	 Very poor	 Very poor	 Good	 Good	 Very poor
Taylor	 Fair 	 Good 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Good 	 Good 	 Very poor
185D: Tradelake	 Poor 	 Fair 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Good 	 Good 	 Poor
Taylor	Poor 	 Fair 	 Good 	 Good 	 Good 	 Very poor 	 Very poor 	 Good 	 Good 	 Poor

Table 16.--Wildlife Habitat--Continued

	!	Po		for habi	tat elem	ents				bitat for
Map symbol and soil name	Grain and seed	 Grasses and	Wild herba- ceous	 Hard- wood		 Wetland plants	:	Open- land wild-	Wood- land wild-	Wetland wild- life
	crops	legumes	plants	trees	plants		areas	life	life	<u> </u>
185E: Tradelake	 Very poor	 Fair 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Fair	 Good 	 Very poor
Taylor	 Very poor	 Fair 	 Good 	 Good 	 Good 	Very poor	 Very poor	Fair	Good	 Very poor
89A: Siren	 Fair 	 Fair 	 Good 	 Good	 Good	 Fair	 Fair 	Fair	 Good	 Fair
L93A: Minocqua	 Very poor	 Fair 	 Fair 	 Fair 	 Fair 	 Good 	 Good 	Poor	 Fair 	 Good
337A: Plover	 Fair 	 Good 	 Good 	 Good 	 Good	 Fair 	 Fair 	 Good	 Good	 Fair
868B: Mahtomedi	 Poor	 Fair	 Fair	 Poor	 Fair 	 Very poor	 Very poor	Fair	 Fair 	 Very poor
Cress	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Very poor	 Very poor	 Fair 	 Fair 	 Very poor
368C: Mahtomedi	 Poor	 Fair 	 Fair 	 Poor 	 Fair 	 Very poor	 Very poor	Fair	 Fair 	 Very poor
Cress	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Very poor	 Very poor	 Fair 	 Fair 	 Very poor
868D: Mahtomedi	 Poor	 Fair 	 Fair 	 Poor	 Fair 	 Very poor	 Very poor	Fair	 Fair 	 Very poor
Cress	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Very poor	 Very poor 	 Fair 	 Fair 	 Very poor
368E: Mahtomedi	 Poor 	 Fair	 Fair	 Poor	 Fair 	 Very poor	 Very poor	Fair	 Fair 	 Very poor
Cress	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Very poor	 Very poor	 Fair 	 Fair 	 Very poor
880B: Cress	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Very poor	 Very poor	Fair	 Fair 	 Very poor
Rosholt	 Good 	 Good 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Good 	 Good 	 Very poor
880C: Cress	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Very poor	 Very poor	Fair	 Fair 	 Very poor
Rosholt	 Fair 	 Good 	 Good 	 Good 	 Good 	 Very poor	 Very poor	Good	 Good 	 Very poor

Table 16.--Wildlife Habitat--Continued

		Po	tential	for habi	tat elem	ents		Potenti	al as ha	bitat for
Map symbol and soil name	Grain and seed crops	 Grasses and legumes	ceous	wood		 Wetland plants 	 Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
380D: Cress	 Poor 	 Fair 	 Fair 	 Fair 	 Fair 	 Very poor	 Very poor	 Poor 	 Fair 	 Very poor
Rosholt	 Very poor	 Fair 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Fair 	 Good 	 Very poor
383B: Mahtomedi	 Poor 	 Fair 	 Fair 	 Poor 	 Fair 	 Very poor	 Very poor	 Fair 	 Fair 	 Very poor
383C: Mahtomedi	 Poor 	 Fair 	 Fair 	 Poor 	 Fair 	 Very poor	 Very poor	 Fair 	 Fair 	 Very poor
383D: Mahtomedi	 Very poor	 Poor 	 Fair 	 Poor 	 Fair 	 Very poor	 Very poor	 Poor 	 Fair 	 Very poor
392C: Rockmarsh	 Very poor	 Poor 	 Good 	 	 Fair 	 Very poor	 Very poor	 Very poor	 Poor 	 Very poor
Dairyland	 Very poor	 Poor 	 Very poor	 Poor 	 Poor 	 Very poor	 Very poor	 Very poor	 Poor 	 Very poor
Makwa	 Very poor	 Poor 	 Very poor	 Fair 	 Fair 	 Poor 	 Very poor	 Very poor	 Poor 	 Very poor
396B: Friendship	 Poor 	 Poor	 Fair 	 Fair 	 Good 	 Poor 	 Very poor	 Fair 	 Good 	 Very poor
Wurtsmith	 Poor 	 Poor 	 Fair 	 Fair 	 Fair 	 Poor 	 Very poor	 Poor 	 Fair 	 Very poor
Grayling	 Poor 	 Poor 	 Fair 	 Poor 	 Poor 	 Poor 	 Very poor	 Poor 	 Poor 	 Very poor
397A: Perchlake	 Poor 	 Fair 	 Good 	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Fair
399B: Grayling	 Poor 	 Poor 	 Fair 	 Poor 	 Fair 	 Poor 	 Very poor	 Poor 	 Fair 	 Very poor
399C: Grayling	 Poor 	 Poor 	 Fair 	 Poor 	 Fair 	 Very poor	 Very poor	 Poor 	 Fair 	 Very poor
399D: Grayling	 Very poor	 Poor 	 Fair 	 Poor 	 Fair 	 Very poor	 Very poor	 Poor 	 Fair 	 Very poor
406A: Loxley	 Very poor 	 Poor 	 Poor 	 Poor 	 Poor 	 Good 	 Good 	 Poor 	 Poor 	 Good

Table 16.--Wildlife Habitat--Continued

		Po	tential	for habi	tat elem	ents		Potenti	al as ha	bitat for
Map symbol and soil name	Grain and seed	 Grasses and	ceous	wood	erous	 Wetland plants	water	wild-	Wood- land wild-	Wetland wild- life
	crops	legumes	plants	trees	plants	<u> </u>	areas	life	life	<u> </u>
407A: Seelyeville	 Very poor	 Very poor	 Very poor	 Very poor	 Very poor	 Good	 Good 	 Very poor	 Very poor	 Good
Markey	 Poor	 Poor	 Poor	 Poor	 Poor	 Good	 Good 	 Poor	Poor	 Good
410A: Seelyeville	 Very poor	 Very poor	 Very poor	 Very poor	 Very poor	 Good	 Good	 Very poor	 Very poor	 Good
Cathro	 Poor 	 Poor	 Poor 	Poor	 Poor	 Good	 Good 	 Poor 	Poor	 Good
419A: Seelyeville	 Very poor	 Very poor	 Very poor	 Very poor	 Very poor	 Good	 Good	 Very poor	 Very poor	 Good
Cathro	 Poor	 Poor	 Poor	Poor	Poor	Good	 Good	 Poor	Poor	 Good
Markey	 Poor 	 Poor 	 Poor 	 Poor	 Poor	 Good	 Good 	 Poor 	 Poor	 Good
421A:							 			
Dora	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
Markey	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
Seelyeville	Very poor	Very poor	Very poor	Very poor	Very poor	Good	Good	Very poor	Very poor	Good
422A: Seelyeville	 Very poor	 Very poor	 Very poor	 Very poor	 Very poor	 Good 	 Good 	 Very poor	 Very poor	 Good
Cathro	 Poor	Poor	 Poor	Poor	Poor	Good	 Good 	 Poor	Poor	Good
Rondeau	 Poor 	Poor	 Poor 	Very poor	Very poor	Good	 Good 	 Poor 	Very	Good
426B:	 		 				 	 		
Emmert	 Very poor	Poor	 Poor 	 Very poor	 Very poor	Very poor	 Very poor	 Poor 	Very poor	Very poor
Mahtomedi	 Poor 	 Fair 	 Fair 	 Poor	 Fair 	 Very poor	 Very poor	 Fair 	 Fair	 Very poor
Menahga	 Poor 	 Poor 	 Fair 	 Poor 	 Fair 	 Very poor	 Very poor	 Poor 	 Fair 	 Very poor
426C:	 		 				 	 		I
Emmert	 Very poor	Poor	Poor	Very poor	Very poor	Very poor	 Very poor	Poor	Very poor	Very poor
Mahtomedi	 Poor 	 Fair 	 Fair 	 Poor 	 Fair 	 Very poor	 Very poor	 Fair 	 Fair 	 Very poor
Menahga	 Poor 	 Poor 	 Fair 	 Poor 	 Fair 	 Very poor	 Very poor	 Poor 	 Fair 	 Very poor
426D:	 		 				 	 		
Emmert	Very poor	Poor	Poor	Very poor	Very poor	Very poor	Very poor	Poor	Very poor	Very poor

Table 16.--Wildlife Habitat--Continued

		Pot	tential	for habi	tat elem	ents		Potenti	al as ha	bitat for-
Map symbol	Grain		Wild					Open-	Wood-	Wetland
and	and	Grasses	herba-	Hard-	Conif-	Wetland	Shallow	land	land	wild-
soil name	seed	and	ceous	wood	erous	plants	water	wild-	wild-	life
	crops	legumes	plants	trees	plants	<u> </u>	areas	life	life	
26D:	 	 	 				 	 		
Mahtomedi	Verv	Poor	Fair	Poor	Fair	Very	Very	Poor	Fair	Very
	poor					poor	poor			poor
	i -	į	İ	İ	į	i -	i -	İ	İ	į -
Menahga	Poor	Poor	Fair	Poor	Fair	Very	Very	Poor	Fair	Very
]		poor	poor			poor
0A:	İ									
reya	Poor	 Fair	 Good	Fair	Fair	Fair	 Fair	 Fair	 Fair	Fair
reya	1001	raii 	G OOQ	Fair	Fair	raii	 	ra ll	rair	Fall
9B:		İ		İ	İ	İ	! 		İ	i
Graycalm	Poor	Poor	Fair	Good	Good	Very	Very	Poor	Good	Very
	İ	İ	j	İ	İ	poor	poor	j	į	poor
		ļ			ļ					
fenahga	Poor	Poor	Fair	Poor	Fair	Very	Very	Poor	Fair	Very
		 	 			poor	poor	 		poor
9C:	 	 	 		l I	 	 	 	 	
Fraycalm	Poor	Poor	Fair	Good	Good	Very	Very	Poor	Good	Very
•					İ	poor	poor			poor
	İ	İ	j	İ	İ	į	İ	j	į	į
ſenahga	Poor	Poor	Fair	Poor	Fair	Very	Very	Poor	Fair	Very
					!	poor	poor			poor
9D:										
Graycalm	Boor	 Poor	 Fair	Good	Good	 Very	 Very	 Poor	Good	Very
Jiaycaim	FOOT	FOOT	raii 	GOOG	GOOG	poor	poor	FOOT	Good	poor
	 	 	 	i	i	10001	1001	 	İ	10001
lenahga	Poor	Poor	Fair	Poor	Fair	Very	Very	Poor	Fair	Very
	İ	į	j	į	į	poor	poor	j	į	poor
		ļ			ļ					[
2C:										
laugen	Fair	Good	Good	Good	Good	Very	Very	Good	Good	Very
	 	l I	 		l I	poor	poor	 		poor
Greenwood	 Verv	Poor	 Poor	Poor	Poor	Good	 Good	 Poor	Poor	Good
	poor									
	i -	į	j	į	į	į	j	j	į	į
43D:				[[
Amery	Fair	Good	Good	Good	Good	Very	Very	Good	Good	Very
	l I		 			poor	poor	 		poor
Greenwood	Verv	 Poor	 Poor	Poor	Poor	Good	 Good	 Poor	Poor	Good
31 eenwood	poor						0000			0000
		İ		İ	İ	İ	! 		İ	i
59A:	İ	j	j	į	į	į	İ	j	į	į
Loxley	Very	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
	poor	ļ			ļ					[
A. J										 gases
Daisybay	-	Poor	Poor	Poor	Poor	Good	Good 	Poor	Poor	Good
	poor	 	 		İ		 	 		
Dawson	Very	Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good
	poor	İ	j	İ	İ	İ	İ	j	İ	İ
	_	İ	İ	İ	İ	İ	İ	İ	İ	İ
51A:				1	1					1
Bowstring		Poor	Poor	Poor	Poor	Good	Good	Poor	Poor	Good

Table 16.--Wildlife Habitat--Continued

		Po	tential	for habi	tat elem	ents		Potenti	al as hal	bitat for
Map symbol and soil name	Grain and seed crops	Grasses and	Wild herba- ceous	 Hard- wood	 Conif-	 Wetland plants	 Shallow water areas	Open-	Wood- land wild- life	Wetland wild- life
465A: Newson	 Fair	 Fair	 Fair	 Poor	 Poor	 Good	 Good	 Fair	 Poor	 Good
Meehan	 Poor	 Fair	 Good	 Fair	 Fair	 Fair	 Fair	 Fair	 Fair	 Fair
469E: Bigisland	 Very poor	 Poor 	 Fair 	 Fair 	 Fair 	 Very poor	 Very poor	 Poor 	 Fair 	 Very poor
Milaca	 Very poor	 Poor 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Poor 	 Good 	 Very poor
471B: Dairyland	 Very poor	 Poor 	 Very poor	 Poor 	 Poor 	 Poor 	 Very poor	 Very poor	 Poor 	 Very poor
Emmert	 Very poor	 Poor 	 Poor 	 Very poor	 Very poor	 Very poor	 Very poor	 Poor 	 Very poor	 Very poor
471C: Dairyland	 Very poor	 Poor 	 Very poor	 Poor 	 Poor 	 Very poor	 Very poor	 Very poor	 Poor 	 Very poor
Emmert	 Very poor 	 Poor 	 Poor 	 Very poor	 Very poor 	 Very poor 	 Very poor 	 Poor 	 Very poor	 Very poor
472A: Rockmarsh	 Very poor	 Poor 	 Good	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Fair
Clemens	 Very poor	 Poor 	 Good 	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Fair
473A:	 	 	 	 	 	 	 	 	 	
Dairyland	Very poor 	Poor 	Fair 	Poor 	Poor 	Poor 	Poor 	Poor 	Poor 	Poor
Skog	Very poor	Poor 	Fair 	Poor	Poor 	Poor 	Poor	Poor	Poor 	Poor
484A: Greenwood	 Very poor	 Poor 	 Poor 	 Poor 	 Poor 	 Good 	 Good 	 Poor 	 Poor 	 Good
Beseman	 Very poor	 Poor 	 Poor 	Poor	 Poor 	 Good 	 Good 	 Poor 	 Poor 	 Good
485C: Lupton	 Very poor	 Poor 	 Poor 	 Poor 	 Poor 	 Poor 	 Very poor	 Poor	 Poor 	 Very poor
Tawas	 Very poor 	 Poor 	 Poor 	 Poor 	 Poor 	 Poor 	 Very poor 	 Poor 	 Poor 	 Very poor
495B: Karlsborg	 Fair 	 Good 	 Good 	 Good	 Good 	 Poor 	 Poor 	 Good	 Good 	 Poor
Grettum	Poor	 Poor 	 Fair 	 Good 	 Good 	 Very poor	 Very poor	 Poor 	 Good 	 Very poor
Perida	 Poor 	 Fair 	 Good 	 Fair 	 Fair 	 Poor 	 Poor 	 Fair 	 Fair 	 Poor

Table 16.--Wildlife Habitat--Continued

		Po	tential	for habi	tat elem	ents		Potentia	al as ha	bitat for
Map symbol and soil name	Grain and seed crops	 Grasses and legumes	ceous	wood		 Wetland plants	:		Wood- land wild- life	Wetland wild- life
495C: Karlsborg	 Poor	 Good	 Good	 Good	 Good	 Very poor	 Very poor	 Fair	 Good	 Very poor
Grettum	 Poor 	 Poor 	 Fair 	 Good 	 Good 	 Very poor	 Very poor	 Poor 	 Good 	 Very poor
Perida	 Poor 	 Fair 	 Good 	 Fair 	 Fair 	 Poor 	 Poor 	 Fair 	 Fair 	 Poor
495D: Karlsborg	 Poor 	 Good 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Fair 	 Good 	 Very poor
Grettum	 Poor 	 Poor 	 Fair 	 Good 	 Good 	 Very poor	 Very poor	 Poor 	 Good 	 Very poor
Perida	 Poor 	 Fair 	 Good 	 Fair 	 Fair 	 Poor 	 Poor 	 Fair 	 Fair 	 Poor
496B: Karlsborg	 Fair 	 Good 	 Good 	 Good 	 Good 	 Poor 	 Poor 	 Good 	 Good 	 Poor
496C: Karlsborg	 Poor 	 Good	 Good	 Good	 Good	 Very poor	 Very poor	 Fair 	 Good	 Very poor
496D: Karlsborg	 Poor 	 Good 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Fair 	 Good 	 Very poor
497A: Meenon	 Poor 	 Fair 	 Good 	 Good 	 Good 	 Fair 	 Fair 	 Fair 	 Good 	 Fair
521A: Dody	 Poor 	 Poor	 Poor	 Poor	 Poor	 Good	 Good	 Poor	 Poor	 Good
523A: Nokasippi	 Poor 	 Poor	 Poor	 Poor	 Poor	 Good	 Good	 Poor	 Poor	 Good
529B: Perida	 Poor	 Fair	 Good	 Fair	 Fair	 Poor	 Poor	 Fair	 Fair	 Poor
531A: Stengel	 Poor	 Fair 	 Good	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Fair	 Fair
542B: Haugen, very stony	 Good 	 Good 	 Good	 Good	 Good 	 Poor 	 Very poor	 Good	 Good	 Very poor
Haugen	 Good 	 Good 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Good 	 Good 	 Very poor
542C: Haugen, very stony	 Fair 	 Good 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Good 	 Good 	 Very poor
Haugen	 Good 	 Good 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Good 	 Good 	 Very poor
544F: Menahga	 Very poor	 Poor 	 Fair 	 Poor 	 Fair 	 Very poor 	 Very poor	 Poor 	 Fair 	 Very poor

Table 16.--Wildlife Habitat--Continued

		Po	tential	for habi	tat elem	ents		Potenti	al as ha	bitat for
Map symbol and soil name	Grain and seed	Grasses and	ceous	wood	erous	 Wetland plants	water	wild-	1	Wetland wild- life
	crops 	legumes	prants	trees	plants		areas	life 	life	<u> </u>
544F: Mahtomedi	 Very poor	 Poor 	 Fair 	 Poor 	 Fair 	 Very poor	 Very poor	 Poor 	 Fair 	 Very poor
553B: Branstad	 Good 	 Good 	 Good 	 Good	 Good	 Poor	 Poor 	 Good 	 Good	 Poor
553C: Branstad	 Fair 	 Good	 Good	 Good 	 Good 	 Very poor	 Very poor	 Good	Good	 Very poor
553D: Branstad	 Fair 	 Good 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Good 	 Good 	 Very poor
555A: Fordum	 Poor 	 Fair 	 Fair 	 Fair	 Fair	 Good	 Good 	 Fair 	 Fair	 Good
557B: Shawano	 Poor 	 Poor 	 Fair 	 Poor	 Poor	 Very poor	 Very poor	 Poor	Poor	 Very poor
557C: Shawano	 Poor 	 Poor 	 Fair 	 Poor 	 Poor 	 Very poor	 Very poor	 Poor 	 Poor 	 Very poor
557D: Shawano	 Very poor	 Very poor	 Fair 	 Poor	 Poor 	 Very poor	 Very poor	 Poor 	 Poor 	 Very poor
586A: Chelmo	 Fair 	 Fair 	 Fair 	 Good	 Good	 Fair	 Good 	 Fair 	Good	 Good
600A: Haplosaprists.	 	 	 	 	 	 	 	 		
Psammaquents.	 	j I	 -	į	į	į	 	 -	į	İ
615B: Cress	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Very poor	 Very poor	 Fair 	 Fair	 Very poor
615C: Cress	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Very poor	 Very poor	 Fair 	 Fair 	 Very poor
615D: Cress	 Poor 	 Fair 	 Fair 	 Fair 	 Fair 	 Very poor	 Very poor	 Poor 	 Fair 	 Very poor
620C: Lundeen	 Fair 	 Good	 Good	 Good 	 Good	 Poor 	 Very poor	 Good	 Good	 Very poor
Haustrup	 Poor	 Poor 	 Fair 	 Fair 	 Fair 	 Poor 	 Very poor	 Poor 	 Fair	 Very poor
Rock outcrop.	 	 	 	 	 	 	 	 		

Table 16.--Wildlife Habitat--Continued

		Po	tential	for habi	tat elem	ents		Potenti	al as ha	bitat for
Map symbol and soil name	Grain and seed	 Grasses and	Wild herba- ceous	 Hard- wood	1	 Wetland plants	 Shallow water	Open- land wild-	Wood- land wild-	Wetland wild- life
	crops	legumes	plants	trees	plants		areas	life	life	
621A: Bjorkland	 Very poor	 Poor 	 Poor 	 Poor 	 Poor 	 Good 	 Good 	 Poor 	 Poor 	 Good
623A: Capitola	 Very poor	 Poor 	 Fair 	 Fair 	 Fair	 Good	 Good	 Poor 	 Fair 	 Good
624A: Ossmer	 Fair	 Good	 Good	 Good	 Good	 Fair	 Fair	 Good	 Good	 Fair
631A: Giese	 Very poor	 Poor 	 Fair 	 Fair 	 Fair 	 Good 	 Good	 Poor 	 Fair 	 Good
632A: Aftad	 Good 	 Good 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Good 	 Good	 Very poor
632B: Aftad	 Good 	 Good 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Good 	 Good 	 Very poor
632C: Aftad	 Good 	 Good 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Good 	 Good 	 Very poor
634C: Drylanding	 Poor 	 Poor	 Fair 	 Fair 	 Fair 	 Poor 	 Very poor	 Poor	 Fair 	 Poor
Beartree	 Poor 	 Very poor	 Fair 	 Fair 	 Fair 	 Good 	 Good 	 Poor 	 Fair 	 Good
Rock outcrop.	į	į	į	į	į			į		į
635C: Drylanding	 Poor 	 Poor 	 Fair 	 Fair 	 Fair 	 Poor 	 Very poor	 Poor 	 Fair 	 Poor
Beartree	 Poor 	 Very poor	 Fair 	 Fair 	 Fair 	 Good 	 Good 	 Poor 	 Fair 	 Good
Rock outcrop.			 					 		
648B: Sconsin	 Good 	 Good 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Good 	 Good 	 Very poor
669D: Fremstadt, stony	 Poor 	 Fair 	 Good	 Good	 Good 	 Very poor	 Very poor	 Fair 	 Good 	 Very poor
Pomroy	 Poor 	 Fair 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Fair 	 Good 	 Very poor
671B: Spoonerhill, stony	 Poor 	 Fair 	 Good 	 Good 	 Good 	 Poor 	 Very poor 	 Fair 	 Good 	 Very poor

Table 16.--Wildlife Habitat--Continued

	l	Po		for habi	tat elem	ents		Potenti		bitat for-
Map symbol and soil name	Grain and seed crops	 Grasses and legumes	ceous	 Hard- wood trees	1	 Wetland plants 	 Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
671B: Spoonerhill	 Poor 	 Fair 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Fair 	 Good 	 Very poor
706A: Winterfield	 Poor	 Fair	 Fair	 Fair	 Fair	 Fair	 Fair	 Fair	 Fair	 Fair
Totagatic	 Very poor	 Poor 	 Poor 	 Poor 	 Poor 	 Good 	 Good 	 Poor 	 Poor 	 Good
715A: Mora	 Very poor	 Poor 	 Good 	 Good 	 Good 	 Fair 	 Fair 	 Poor 	 Good 	 Fair
717B: Milaca	 Very poor	 Poor 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Poor 	 Good 	 Poor
717C: Milaca	 Very poor	 Poor 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Poor 	 Good 	 Poor
720F: Haustrup	 Poor 	 Poor 	 Fair 	 Fair 	 Fair 	 Poor 	 Very poor	 Poor 	 Fair 	 Very poor
Lundeen	 Fair 	 Good 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Good 	 Good 	 Very poor
Rock outcrop.	 	 	 	 	 	 	 	 		
726B: Sissabagama	 Poor 	 Fair 	 Fair 	 Fair 	 Fair 	 Poor 	 Very poor	 Poor 	 Fair 	 Very poor
742B: Milaca	 Very poor	 Poor 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Poor 	 Good	 Poor
742C: Milaca	 Very poor	 Good 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Poor 	 Good 	 Poor
742D: Milaca	 Very poor	 Poor 	 Good 	 Good 	 Good 	 Very poor	 Very poor	 Poor	 Fair 	 Very poor
755A: Moppet	 Fair	 Good	 Good	 Good	 Good	 Poor	 Poor	 Good	 Good	 Poor
Fordum	 Very poor	 Very poor	 Poor 	 Fair 	 Fair 	 Good 	 Good 	 Very poor	 Fair 	 Good
771A: Lenroot	 Poor 	 Fair 	 Fair 	 Poor 	 Fair 	 Very poor	 Very poor	 Fair 	 Fair 	 Very poor
812B: Mora	 Very poor	 Good 	 Good 	 Good 	 Good 	 - Fair -	 Very poor	 Poor 	 Good 	 Fair

Table 16.--Wildlife Habitat--Continued

		Po	tential	for habi	tat elem	ents		Potenti	al as ha	bitat for-
Map symbol and soil name	Grain and seed crops	 Grasses and legumes	ceous	wood	 Conif- erous plants	 Wetland plants 	 Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
0053										
825A: Meehan	 Poor	 Fair 	 Good 	 Fair	 Fair	 Fair	 Fair 	 Fair 	Fair	 Fair
896A: Wurtsmith	 Poor 	 Poor 	 Fair 	 Fair 	 Fair 	 Poor 	 Very poor	 Poor 	 Fair 	 Very poor
980A: Soderbeck	 Very poor	 Poor 	 Good	 Fair 	 Fair 	 Fair 	 Fair 	 Poor 	 Fair 	 Fair
1070C: Fremstadt	 Poor 	 Fair 	 Good	 Good 	 Good 	 Very poor	 Very poor	 Fair 	 Good 	 Very poor
Cress	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Very poor	 Very poor	 Fair 	 Fair 	 Very poor
1070D: Fremstadt	 Poor 	 Fair 	 Good	 Good 	 Good	 Very poor	 Very poor	 Fair 	 Good	 Very poor
Cress	 Poor 	 Fair 	 Fair 	 Fair 	 Fair 	 Very poor	 Very poor	 Poor 	 Fair 	 Very poor
1080B: Spoonerhill	 Poor 	 Fair 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Fair 	 Good 	 Very poor
Spoonerhill, stony	 Poor 	 Fair 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Fair 	 Good 	 Very poor
Cress	 Fair 	 Fair 	 Fair 	 Fair 	 Fair 	 Very poor	 Very poor	 Fair 	 Fair 	 Very poor
2002. Udorthents, earthen dams	 	 	 	 	 	 	 	 	 	
2015. Pits	 	 	 	 	 		 	 	 	
2050. Landfill	 	 	 	 	 	 	 	 	 	
3011A: Barronett	 Poor	 Fair	 Fair	 Fair	 Fair	 Good	 Good	 Fair	 Fair	 Good
3082E: Braham	 Very poor	 Fair 	 Good	 Good 	 Good	 Very poor	 Very poor	 Fair 	 Good 	 Very poor
Shawano	 Very poor	 Poor 	 Fair 	 Fair 	 Fair 	 Very poor	 Very poor	 Fair 	 Fair 	 Very poor
3114A:	 		 				 	 		
Saprists	Very poor	Very poor	Very poor	Very poor	Very poor	Good 	Good 	Very poor	Very poor	Good
Aquents	 Very poor	 Very poor	 Very poor	 Very poor	 Very poor	 Good	 Good 	 Very poor	 Very poor	 Good

Table 16.--Wildlife Habitat--Continued

		Po	tential	for habi	tat elem	ents		Potenti	al as ha	bitat for-
Map symbol and soil name	Grain and seed crops	Grasses and	ceous	wood	 Conif- erous plants	 Wetland plants	 Shallow water areas	Open- land wild- life	Wood- land wild- life	Wetland wild- life
3114A: Aquepts	 Very poor	 Very poor	 Very poor	 Very poor	 Very poor	 Good 	 Good 	 Very poor	 Very poor	 Good
3125A: Meehan	 Poor	 Fair	 Good	 Fair	 Fair	 Fair	 Fair	 Fair	 Fair	 Fair
3126A:		 	 				 	 		
Wurtsmith	Poor	Poor	Fair 	Fair	Fair	Poor	Very poor	Poor	Fair	Very poor
3312B: Glendenning, very stony	 Fair	 Fair	 Good	 Good	Good	Fair	 Poor	 Good	 Good	 Fair
Glendenning	 Fair 	 Fair	 Good	 Good	 Good	 Fair	 Poor	 Good	 Good	 Fair
3336A: Fenander	 Fair 	 Fair 	 Fair 	 Fair	 Fair	Good	 Good	 Fair 	 Fair	 Good
3403A: Loxley	 Very poor	 Poor	 Poor	 Poor	 Poor	 Good	 Good	 Poor	 Poor	 Good
Beseman	 Very poor	 Poor 	 Poor 	 Poor 	 Poor 	Good	 Good 	 Poor 	 Poor 	 Good
Dawson	 Very poor	 Poor 	 Poor 	 Poor 	 Poor 	 Good	 Good 	 Poor 	 Poor 	 Good
3429B: Lara	 Poor	 Fair	 Good	 Fair	 Fair	 Poor	 Poor	 Fair	 Fair	 Poor
3429C: Lara	 Poor 	 Fair 	 Good 	 	 Fair 	 Very poor	 Very poor	 Fair 	 Fair 	 Very poor
3446A: Newson	 Fair 	 Fair 	 Fair 	 Poor	 Poor	 Good	 Good	 Fair 	 Poor	 Good
3448B: Grettum	 Poor 	 Poor 	 Fair 	 Good 	 Good	 Very poor	 Very poor	 Poor	 Good	 Very poor
3448C: Grettum	 Poor 	 Poor 	 Fair 	 Good 	 Good 	 Very poor	 Very poor	 Poor 	 Good 	 Very poor
3510B: Pomroy	 Poor 	 Fair 	 Good 	 Good	 Good	 Poor	 Very poor	 Fair 	 Good	 Very poor
Fremstadt	 Poor 	 Fair 	 Good 	 Good 	 Good 	 Poor 	 Very poor	 Fair 	 Good 	 Very poor
Fremstadt, stony	 Poor 	 Fair 	 Good	 Good 	 Good 	 Poor	 Very poor	 Fair 	 Good 	 Very poor
3510C: Pomroy	 Poor 	 Fair 	 Good 	 Good	 Good 	 Very poor	 Very poor	 Fair 	 Good 	 Very poor

Table 16.--Wildlife Habitat--Continued

		Po	tential	for habi	tat elem	ents		Potenti	al as ha	bitat for
Map symbol	Grain		Wild					Open-	Wood-	Wetland
and	and	Grasses	herba-	Hard-	Conif-	Wetland	Shallow	land	land	wild-
soil name	seed	and	ceous	wood	erous	plants	water	wild-	wild-	life
	crops	legumes	plants	trees	plants		areas	life	life	
3510C:			 				 	 		
Fremstadt	Poor	 Fair	 Good	Good	Good	Very	 Very	 Fair	Good	Very
						poor	poor			poor
Fremstadt, stony	Poor	 Fair	 Good	Good	Good	 Very	 Very	 Fair	Good	 Very
		į	į	į	į	poor	poor	į	į	poor
3511A:			 				 	 		
Bushville	Fair	Good	Good	Good	Good	Poor	Very	Good	Good	Poor
							poor			
3516A:			 				 		l I	
Slimlake	Fair	Fair	Good	Good	Good	Poor	Poor	Fair	Good	Poor
3625A:			 				 		l I	
Lino	Poor	Good	Good	Good	Good	Fair	Fair	Good	Good	Fair
3626A:			 				 	 	1	
Crex	Poor	Fair	Good	Poor	Fair	Poor	Very	Fair	Poor	Very
			 				poor	 		poor
3629B:		İ	İ	İ		İ			İ	İ
Perida	Poor	Fair	Good	Fair	Fair	Poor	Poor	Fair	Fair	Poor
3636B:							 			
Plainbo	Poor	Poor	Fair	Poor	Poor	Very	Very	Poor	Poor	Very
			 			poor	poor			poor
3636C:										
Plainbo	Poor	Poor	Fair	Poor	Poor	Very	Very	Poor	Poor	Very
		 	 		 	poor	poor	 	1	poor
M-W.		İ		İ	İ		İ		İ	İ
Miscellaneous water										
√.			 				! 			
Water										1

Table 17a.--Building Site Development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

Map symbol and soil name	Dwellings witho	ut	Dwellings v		Small commercia buildings	1
	Rating class and limiting features	Value	Rating class ar		Rating class and limiting features	Value
3A:	1		l I		l	
Totagatic	 Very limited	i	 Very limited	i	 Very limited	i
5	Subsidence	1.00	Subsidence	1.00	: -	1.00
	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zor	ie	saturated zone	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
Bowstring	 Very limited		 Very limited		 Very limited	
	Subsidence	1.00	Subsidence	1.00	Subsidence	1.00
	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zor	ie	saturated zone	
	Content of	1.00	Content of	1.00	Content of	1.00
	organic matter		organic matte		organic matter	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
Ausable	 Very limited		 Very limited	i	 Very limited	
	Subsidence	1.00	Subsidence	1.00	Subsidence	1.00
	Flooding	1.00	Flooding	1.00	!	1.00
	Depth to	1.00	Depth to	1.00		1.00
	saturated zone		saturated zor		saturated zone	
	Ponding	1.00	Ponding 	1.00	Ponding	1.00
12A:		İ		i		İ
Makwa	Very limited		Very limited		Very limited	
	Flooding	1.00	Flooding	1.00		1.00
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zor		saturated zone	
	Ponding	1.00	Ponding	1.00		1.00
	Content of large stones		Content of land	rge U.II	Content of large stones	
	į	į		į		į
22A: Comstock	 Verv limited		 Very limited		 Very limited	
	Depth to	1.00	Depth to	1.00	: -	1.00
	saturated zone	İ	saturated zor	ıe	saturated zone	İ
	Shrink-swell	0.50		į	Shrink-swell	0.50
27A:			 		 	
Scott Lake	Not limited	i	 Very limited	į	 Not limited	i
	İ	İ	Depth to	0.99	İ	İ
			saturated zor	ne		
000	 		 		 	
28B:	Somewhat limited	İ	 Very limited	į	Somewhat limited	İ
Haugen, very stony			Depth to	1.00	Depth to	0.39
	Depth to	0.39	Depen co	1	Dopon oo	
		0.39	saturated zor		saturated zone	
	Depth to saturated zone	<u> </u> 			: -	
Haugen, very stony	Depth to saturated zone	<u> </u> 	saturated zor		saturated zone	 0.39

Table 17a.--Building Site Development--Continued

Map symbol and soil name	 Dwellings witho basements 	ut	 Dwellings with basements 		Small commercial buildings		
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
28B:]	 	 		
Rosholt, very stony	Not limited		 Not limited		 Not limited		
Rosholt	 Not limited	 	 Not limited 	 	 Not limited 		
28C:							
Haugen, very stony	Somewhat limited Depth to saturated zone	 0.39 	Very limited Depth to saturated zone	 1.00	Very limited Slope Depth to	 1.00 0.39	
	Slope	0.04	!	0.04	:		
Haugen	Depth to	 0.39	_	 1.00	:	1.00	
	saturated zone Slope	 0.04	saturated zone	 0.04	Depth to saturated zone	0.39	
Rosholt, very stony			 Somewhat limited	:	 Very limited		
	Slope	0.04	Slope 	0.04 	Slope 	1.00	
Rosholt	Somewhat limited Slope	 0.04	Somewhat limited Slope	 0.04	Very limited Slope	1.00	
38A: Rosholt	 Not limited 	 	 Not limited 	 	 Not limited 		
38B: Rosholt	 Not limited	 	 Not limited	 	 Not limited		
38C: Rosholt	 Somewhat limited Slope	0.04	 Somewhat limited Slope	 0.04	 Very limited Slope	1.00	
38D: Rosholt	 Very limited Slope	 1.00	 Very limited Slope	 1.00	 Very limited Slope	1.00	
42D: Amery	 Very limited Slope 	 1.00	 Very limited Slope	 1.00	 Very limited Slope 	1.00	
43B: Antigo	 Not limited	 	 Not limited	 	 Not limited 	 	
43C: Antigo	 Somewhat limited Slope	 0.37	 Somewhat limited Slope	 0.37	 Very limited Slope	1.00	
63A: Crystal Lake	 Somewhat limited Shrink-swell Depth to saturated zone	 0.50 0.39 	 Very limited Depth to saturated zone	 1.00 	 Somewhat limited Shrink-swell Depth to saturated zone	 0.50 0.39	
63B: Crystal Lake	 Somewhat limited Shrink-swell Depth to saturated zone	 0.50 0.39 	 Very limited Depth to saturated zone 	 1.00 	 Somewhat limited Shrink-swell Depth to saturated zone	 0.50 0.39	

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings witho	ut	Dwellings with basements		Small commercial buildings		
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
63C: Crystal Lake	Shrink-swell Depth to saturated zone	0.50	 Very limited Depth to saturated zone Slope	 1.00 0.04	Shrink-swell Depth to	 1.00 0.50 0.39	
64A:	Slope 	0.04	 	 	saturated zone	 	
Totagatic	Very limited Subsidence Flooding Depth to saturated zone Ponding	 1.00 1.00 1.00 	Very limited Subsidence Flooding Depth to saturated zone Ponding	 1.00 1.00 1.00 	!	 1.00 1.00 1.00 	
Winterfield	 Very limited Flooding Depth to saturated zone	 1.00 1.00	 Very limited Flooding Depth to saturated zone	 1.00 1.00	 Very limited Flooding Depth to saturated zone	 1.00 1.00	
69C:	 		 				
Keweenaw	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	Very limited Slope	1.00	
Sayner	Somewhat limited Slope	0.16	Somewhat limited Slope	0.16	 Very limited Slope	1.00	
Vilas	 Somewhat limited Slope	0.16	 Somewhat limited Slope	0.16	 Very limited Slope	1.00	
69E:	 		 		 		
Keweenaw	 Very limited Slope	1.00	 Very limited Slope	1.00	 Very limited Slope	1.00	
Sayner	 Very limited Slope	1.00	 Very limited Slope	1.00	 Very limited Slope	1.00	
Vilas	 Very limited Slope	1.00	 Very limited Slope	1.00	 Very limited Slope	1.00	
82B: Cutaway	 Somewhat limited Shrink-swell Depth to saturated zone	 0.50 0.39	 Very limited Depth to saturated zone	 1.00 	Somewhat limited Shrink-swell Depth to saturated zone	0.50	
Branstad	 Somewhat limited Depth to saturated zone	 0.39 	 Very limited Depth to saturated zone 	 1.00 	 Somewhat limited Depth to saturated zone	0.39	
82C: Cutaway	Somewhat limited Shrink-swell Depth to saturated zone Slope	 0.50 0.39 0.04	 Very limited Depth to saturated zone Slope	 1.00 0.04	 Very limited Slope Shrink-swell Depth to saturated zone	 1.00 0.50 0.39	
Branstad	 Somewhat limited Depth to saturated zone Slope	 0.39 0.04	 Very limited Depth to saturated zone Slope	 1.00 0.04	 Very limited Slope Depth to saturated zone	 1.00 0.39	

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings witho	ut	Dwellings with basements		Small commercial buildings		
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
83A: Smestad	Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	 1.00	
85B: Taylor	 Very limited Depth to saturated zone Shrink-swell	 1.00 1.00	 Very limited Depth to saturated zone Shrink-swell	 1.00 1.00	 Very limited Depth to saturated zone Shrink-swell	 1.00 1.00	
85C: Taylor	 Very limited Depth to saturated zone Shrink-swell Slope	 1.00 1.00 0.04	 Very limited Depth to saturated zone Shrink-swell Slope	 1.00 1.00 0.04	 Very limited Depth to saturated zone Shrink-swell Slope	 1.00 1.00 1.00	
86A: Indus	 Very limited Depth to saturated zone Shrink-swell Ponding	 1.00 1.00	 Very limited Depth to saturated zone Shrink-swell Ponding	 1.00 1.00	Very limited Depth to saturated zone Shrink-swell Ponding	 1.00 1.00 1.00	
Alango	 Very limited Depth to saturated zone Shrink-swell	 1.00 1.00	 Very limited Depth to saturated zone Shrink-swell	 1.00 1.00	 Very limited Depth to saturated zone Shrink-swell	 1.00 1.00	
89A: Wildwood	 Very limited Depth to saturated zone Shrink-swell Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Shrink-swell Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Shrink-swell Ponding	 1.00 1.00 1.00	
96B: Karlsborg	 Somewhat limited Depth to saturated zone	 0.98 	 Very limited Depth to saturated zone	 1.00	 Somewhat limited Depth to saturated zone	 0.98 	
96C: Karlsborg	 Somewhat limited Depth to saturated zone Slope	0.98	 Very limited Depth to saturated zone Slope	 1.00 0.04	 Very limited Slope Depth to saturated zone	 1.00 0.98	
96D: Karlsborg	 Very limited Slope Depth to saturated zone	 1.00 0.98 	 Very limited Depth to saturated zone Slope	 1.00 1.00	 Very limited Slope Depth to saturated zone	 1.00 0.98 	
100B: Menahga	 Not limited 		 Not limited 		 Not limited 		
100C: Menahga	 Somewhat limited Slope 	0.04	 Somewhat limited Slope 	0.04	 Very limited Slope 	1.00	

Table 17a.--Building Site Development--Continued

Map symbol and soil name	 Dwellings witho basements 	 Dwellings with basements 		Small commercial buildings		
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
100D: Menahga	 	 1.00	 - Very limited Slope	 1.00	 Very limited Slope	1.00
120B: Kost	 Not limited	 	 Not limited	 	 Not limited	
127D: Amery	 Very limited Slope	 1.00	 Very limited Slope	 1.00	 Very limited Slope	1.00
Rosholt	 Very limited Slope 	 1.00 	 Very limited Slope 	 1.00 	 Very limited Slope 	 1.00
127E:		i		i		i
Amery	Very limited Slope 	 1.00 	Very limited Slope 	 1.00	Very limited Slope 	1.00
Rosholt	 Very limited Slope	1.00	 Very limited Slope	1.00	 Very limited Slope	1.00
151A: Bluffton	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	1.00
152A: Alstad	Shrink-swell 	0.50 1.00 0.50	Shrink-swell 	0.50 1.00 0.50	Shrink-swell 	0.50 1.00 0.50
154E: Cushing		į Į	 Very limited Slope Shrink-swell	 	 Very limited	1.00
156B: Magnor, very stony	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	1.00
Magnor	 Very limited Depth to saturated zone	 - 1.00 -	 Very limited Depth to saturated zone	 - 1.00 -	 Very limited Depth to saturated zone	1.00
157B: Freeon, very stony	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	1.00
Freeon	 Very limited Depth to saturated zone 	 	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	1.00

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings witho	ut	Dwellings with basements		Small commercia buildings	1
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
157C:						
Freeon, very stony	Depth to	1.00	 Very limited Depth to	1.00	 Very limited Depth to	1.00
	saturated zone Slope	0.04	saturated zone	0.04	saturated zone	1.00
Freeon	 Very limited Depth to saturated zone	1.00	 Very limited Depth to saturated zone	1.00	 Very limited Depth to saturated zone	1.00
	Slope	0.04	Slope	0.04	Slope	1.00
160A:		İ			İ	İ
Oesterle	Very limited Depth to saturated zone	 1.00 	Very limited Depth to saturated zone	 1.00 	Very limited Depth to saturated zone	1.00
165B:	 	l I	l		 	
	Somewhat limited Content of large stones	:	Somewhat limited Content of large stones	!	Somewhat limited Content of large stones	0.14
185B:	 		 		 	
Tradelake	 Very limited	İ	 Very limited		 Very limited	İ
	Shrink-swell	1.00		1.00	Shrink-swell	1.00
	Depth to saturated zone	0.98	saturated zone Shrink-swell	1.00	Depth to saturated zone	0.98
Taylor	 Very limited		 Very limited		 Very limited	
-	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone Shrink-swell	1.00	saturated zone Shrink-swell	1.00	saturated zone Shrink-swell	1.00
185C:	 	 	 		 	
Tradelake	 Very limited	İ	 Very limited		 Very limited	İ
	Shrink-swell	1.00	Depth to	1.00	Shrink-swell	1.00
	Depth to	0.98	saturated zone		Slope	1.00
	saturated zone Slope	0.04	Shrink-swell Slope	1.00	Depth to saturated zone	0.98
	j	İ	į	İ	İ	İ
Taylor	· -	1.00	Very limited	 1.00	Very limited	1.00
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1
	Shrink-swell	1.00	Shrink-swell	1.00		1.00
	Slope	0.04	Slope	0.04	Slope	1.00
185D:	 		 		 	
Tradelake	 Very limited	į	 Very limited	į	 Very limited	j
	Shrink-swell	1.00	Depth to	1.00	Slope	1.00
	Slope	1.00	saturated zone		Shrink-swell	1.00
	Depth to saturated zone	0.39	Shrink-swell Slope	1.00 1.00	Depth to saturated zone	0.39
			į -	į	<u>.</u>	İ
Taylor	Very limited Depth to	1 00	Very limited	1 00	Very limited Slope	1.00
	saturated zone	1.00	Depth to saturated zone	1.00	Slope Depth to	1.00
	Shrink-swell	1.00	Shrink-swell	1.00	saturated zone	
	Slope	1.00	Slope	1.00	Shrink-swell	1.00
					[

Table 17a.--Building Site Development--Continued

Map symbol and soil name	 Dwellings witho basements	ut	 Dwellings with basements		 Small commercia buildings 	,1
	Rating class and	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
185E: Tradelake	 Very limited Slope Shrink-swell Depth to	 1.00 1.00 0.39	 Very limited Slope Depth to saturated zone	 1.00 1.00		 1.00 1.00 0.39
Taylor	saturated zone	 1.00 1.00 1.00	Shrink-swell Very limited Slope Depth to saturated zone Shrink-swell	1.00 1.00 1.00 1.00	saturated zone Very limited Slope Depth to saturated zone	 1.00 1.00 1.00
189A: Siren	 Very limited Depth to saturated zone Shrink-swell	 1.00 1.00	 Very limited Depth to saturated zone Shrink-swell	 1.00 1.00	saturated zone	1.00
193A: Minocqua	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00
337A: Plover	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00
368B: Mahtomedi	į	İ	 Not limited 	İ	 Not limited 	
Cress368C:	Not limited 	 	Not limited 	 	Not limited 	
Mahtomedi	Somewhat limited Slope 	 0.04 	Somewhat limited Slope 	 0.04 	Very limited Slope 	1.00
Cress	Somewhat limited Slope	0.04	Somewhat limited Slope	0.04	 Very limited Slope	1.00
368D: Mahtomedi	 Very limited Slope	 1.00	 Very limited Slope	 1.00	 Very limited Slope	1.00
Cress	 Very limited Slope	1.00	 Very limited Slope	1.00	 Very limited Slope	1.00
368E: Mahtomedi	 Very limited Slope	 1.00	 Very limited Slope	 1.00	 Very limited Slope	1.00
Cress	 Very limited Slope	1.00	 Very limited Slope	1.00	 Very limited Slope	1.00
380B: Cress	 Not limited 	 	 Not limited 	 	 Not limited 	
Rosholt	Not limited	i I	Not limited	į I	Not limited	İ I

Table 17a.--Building Site Development--Continued

Map symbol and soil name	 Dwellings witho basements	ut	 Dwellings with basements		 Small commercia buildings	1
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
380C: Cress	 Somewhat limited Slope	 0.04	 Somewhat limited Slope	 0.04	 Very limited Slope	 1.00
Rosholt	Somewhat limited Slope	0.04	 Somewhat limited Slope	0.04	 Very limited Slope	1.00
380D: Cress	 Very limited Slope	 1.00	 Very limited Slope	 1.00	 Very limited Slope	1.00
Rosholt	 Very limited Slope	 1.00	 Very limited Slope	 1.00	 Very limited Slope 	1.00
383B: Mahtomedi	 Not limited 	 	 Not limited 	 	 Not limited 	
383C: Mahtomedi	 Somewhat limited Slope 	 0.04	 Somewhat limited Slope	 0.04	 Very limited Slope 	1.00
383D: Mahtomedi	 Very limited Slope	 1.00	 Very limited Slope	 1.00	 Very limited Slope 	1.00
392C: Rockmarsh	 Very limited Depth to saturated zone Content of large stones Slope	1.00	saturated zone Content of large stones	1.00	 Very limited Depth to saturated zone Slope Content of large stones	 1.00 1.00 0.88
Dairyland	Somewhat limited Content of large stones Depth to saturated zone Slope	:	saturated zone Content of large stones	1.00	Content of large stones Depth to	 1.00 0.60 0.39
Makwa	 Very limited Depth to saturated zone Content of large stones	1.00	 Very limited Depth to saturated zone Content of large stones	1.00	saturated zone	 1.00 0.88 0.11
396B: Friendship	 Not limited 	 	 Somewhat limited Depth to saturated zone	 0.35	 Not limited 	
Wurtsmith	 Somewhat limited Depth to saturated zone		 Very limited Depth to saturated zone	:	 Somewhat limited Depth to saturated zone	 0.39
Grayling	 Not limited 	 	 Not limited	 	 Not limited 	

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings witho	ut	Dwellings with basements		Small commercial buildings 		
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
397A: Perchlake	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	 1.00	
399B: Grayling	 Not limited		 Not limited		 Not limited		
399C: Grayling	 Somewhat limited Slope 	0.04	 Somewhat limited Slope 	0.04	 Very limited Slope	1.00	
399D: Grayling	 Very limited Slope 	 1.00	 Very limited Slope 	 1.00	 Very limited Slope	1.00	
406A: Loxley	Very limited Subsidence Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00 1.00	Very limited Subsidence Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00 	!	 1.00 1.00 1.00	
407A: Seelyeville	Very limited Subsidence Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00 	Very limited Subsidence Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00 	Very limited Subsidence Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	
Markey		 1.00 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00 	saturated zone	 1.00 1.00 	
410A: Seelyeville	Very limited Subsidence Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00 1.00	Very limited Subsidence Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00 1.00	Very limited Subsidence Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	
Cathro		 1.00 1.00 1.00 1.00	 Very limited Subsidence Depth to saturated zone Ponding	 1.00 1.00 1.00 		 1.00 1.00 1.00 	

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercia buildings	Small commercial buildings	
	Rating class and	Value	Rating class and	Value	Rating class and	Value	
	limiting features		limiting features		limiting features	i	
419A:						!	
Seelyeville	:		Very limited		Very limited		
	Subsidence Depth to	1.00	Subsidence Depth to	1.00	Subsidence	1.00	
	saturated zone	1.00	saturated zone	1.00	Depth to saturated zone	1.00	
	Content of	1.00	Content of	1.00	Content of	1.00	
	organic matter		organic matter		organic matter		
	Ponding	1.00	Ponding	1.00	Ponding	1.00	
		i	İ	İ	İ	i	
Cathro	Very limited	İ	Very limited	İ	Very limited	İ	
	Subsidence	1.00	Subsidence	1.00	Subsidence	1.00	
	Depth to	1.00	Depth to	1.00	Depth to	1.00	
	saturated zone		saturated zone		saturated zone		
	Content of	1.00	Ponding	1.00	Content of	1.00	
	organic matter				organic matter		
	Ponding	1.00			Ponding	1.00	
Markey	Very limited		Very limited		Very limited		
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to	1.00	
	Saturated zone Content of	1.00	saturated zone Ponding	1.00	saturated zone Content of	1.00	
	organic matter	1	Foliating	1	organic matter	1	
	Ponding	1.00	 		Ponding	1.00	
421A:		İ		İ		i	
Dora	Very limited	į	Very limited	İ	Very limited	į	
	Depth to	1.00	Depth to	1.00	Depth to	1.00	
	saturated zone		saturated zone		saturated zone		
	Content of	1.00	Ponding	1.00	Content of	1.00	
	organic matter				organic matter		
	Ponding	1.00			Ponding	1.00	
Markey	Very limited		Very limited		Very limited		
	Depth to	1.00	Depth to	1.00	Depth to	1.00	
	saturated zone Content of	1.00	saturated zone Ponding	1.00	saturated zone Content of	1.00	
	organic matter	1.00	Policing	1	organic matter	1	
	Ponding	1.00	 	 	Ponding	1.00	
Seelyeville	 Very limited	i	 Very limited	İ	 Very limited	i	
-	Subsidence	1.00	Subsidence	1.00	Subsidence	1.00	
	Depth to	1.00	Depth to	1.00	Depth to	1.00	
	saturated zone	İ	saturated zone	İ	saturated zone	j	
	Content of	1.00	Content of	1.00	Content of	1.00	
	organic matter		organic matter		organic matter		
	Ponding	1.00	Ponding	1.00	Ponding	1.00	
						!	
422A:			 				
Seelyeville		1	Very limited		Very limited	1 00	
	Subsidence	1.00	Subsidence	1.00	Subsidence	1.00	
	Depth to	1.00	Depth to saturated zone	1.00	Depth to	1.00	
	saturated zone Content of	1.00	saturated zone Content of	1.00	saturated zone Content of	1.00	
	organic matter	1	organic matter	1	organic matter	1	
	Ponding	1.00	Ponding	1.00	Ponding	1.00	
						1 - 3 0 0	

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings witho basements	ut	Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
422A:						
Cathro	 Verv limited	i	 Very limited	l I	 Very limited	İ
	Subsidence	1.00	Subsidence	1.00	· -	1.00
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Content of	1.00	Ponding	1.00	!	1.00
	organic matter Ponding	1.00		 	organic matter Ponding	1.00
	Fonding	1		l I	Foliating	1
Rondeau	 Very limited	i	 Very limited	İ	 Very limited	İ
	Subsidence	1.00	Subsidence	1.00	Subsidence	1.00
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Content of	1.00	Ponding	1.00	!	1.00
	organic matter Ponding	1.00	 	l I	organic matter Ponding	1.00
	Ponding	1	 	 	Policing	1
426B:	İ	i		İ		i
Emmert	Not limited		Not limited		Not limited	
Mahtomedi	 Not limited		 Not limited		 Not limited	
	İ					
Menahga	Not limited		Not limited 	 	Not limited 	
426C:	İ	į		j		i
Emmert	Somewhat limited		Somewhat limited		Very limited	
	Slope	0.04	Slope	0.04	Slope	1.00
Mahtomedi	 Comowhat limited		 Somewhat limited		 Very limited	
Mancomedi	Slope	0.04	!	0.04	· -	1.00
		İ				
Menahga	Somewhat limited		Somewhat limited		Very limited	
	Slope	0.04	Slope	0.04	Slope	1.00
426D:		i	 			
Emmert	Very limited	į	Very limited	İ	Very limited	İ
	Slope	1.00	Slope	1.00	Slope	1.00
20.3.6					 	
Mahtomedi	Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
	blobe		blope		blope	
Menahga	Very limited	į	 Very limited	j	 Very limited	i
	Slope	1.00	Slope	1.00	Slope	1.00
400-		ļ				
430A: Freya	 Vorus limited		 Very limited	 	 Very limited	
rieya	Depth to	1.00	_	1.00	-	1.00
	saturated zone		saturated zone		saturated zone	
	İ	į		İ	İ	İ
439B:		ļ				
Graycalm	Not limited		Not limited		Not limited	
Menahga	 Not limited		 Not limited		Not limited	
··						
439C:						
Graycalm			Somewhat limited		Very limited	
	Slope	0.04	Slope	0.04	Slope	1.00
Menahga	 Somewhat limited	I	 Somewhat limited	I I	 Very limited	
	Slope	0.04	Slope	0.04		1.00
	· -	i	. -	i	i	i

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings without		Dwellings with basements		Small commercial buildings	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>
439D:	 		 		 -	
Graycalm	 Verv limited		 Very limited	1	 Very limited	i
	Slope	1.00	Slope	1.00	Slope	1.00
				ļ		ļ
Menahga	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
	Slope		Slope	1	Slope	1
442C:		i		į		i
Haugen	Somewhat limited		Very limited		Somewhat limited	
	Depth to	0.39	Depth to	1.00	Slope	0.88
	saturated zone		saturated zone	ļ	Depth to	0.39
	 		 		saturated zone	
Greenwood	 Very limited		 Very limited		 Very limited	i
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone	j	saturated zone	ĺ	saturated zone	İ
	Content of	1.00	Content of	1.00	Content of	1.00
	organic matter		organic matter		organic matter	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
443D:	[i
Amery	Very limited	İ	Very limited	į	Very limited	į
	Slope	1.00	Slope	1.00	Slope	1.00
Greenwood	 Very limited		 Very limited	 	 Very limited	
GI COMMODA	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Content of	1.00	Content of	1.00	Content of	1.00
	organic matter	j	organic matter	ĺ	organic matter	İ
	Ponding	1.00	Ponding	1.00	Ponding	1.00
459A:	 		 		 	
Loxley	 Very limited		 Very limited	i	 Very limited	i
-	Subsidence	1.00	Subsidence	1.00	Subsidence	1.00
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Content of	1.00	Content of	1.00	Content of	1.00
	organic matter		organic matter		organic matter	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
Daisybay	 Very limited		 Very limited	İ	 Very limited	i
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Content of	1.00	Shrink-swell	1.00	Content of	1.00
	organic matter		Ponding	1.00	, -	
	Ponding	1.00	 	 	Ponding	1.00
Dawson	 Very limited		 Very limited		 Very limited	
	Subsidence	1.00	Subsidence	1.00	Subsidence	1.00
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Content of	1.00	Ponding	1.00	Content of	1.00
	organic matter Ponding	1.00	 	1	organic matter Ponding	1.00
	FORGING	1	 	 	Foliating	1

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings witho	ut	Dwellings with basements		Small commercia buildings	1
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
461A:	 				 	
Bowstring	 Very limited		 Very limited		 Very limited	i
3	Subsidence	1.00	-	1.00	: -	1.00
	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Content of	1.00	Content of	1.00	Content of	1.00
	organic matter Ponding	 1.00	organic matter Ponding	1.00	organic matter Ponding	1.00
	Ponding		Ponding		Ponding	1.00
465A:		İ		İ		
Newson	: -	:	Very limited	:	Very limited	
	Depth to	1.00	-	1.00		1.00
	saturated zone	1.00	saturated zone Ponding	1.00	saturated zone	1.00
	Foliating		Fonding		Foliding	
Meehan	Very limited	İ	Very limited	İ	Very limited	į
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
469E:	 				 	
Bigisland	 Very limited	İ	 Very limited	İ	 Very limited	i
	Slope	1.00	Slope	1.00	Slope	1.00
	Content of large	0.61	Content of large	0.61	Content of large	0.61
	stones		stones		stones	
Milaca	 Very limited	 	 Very limited	 	 Very limited	
	Slope	1.00	-	1.00	: -	1.00
	Depth to	0.39	Depth to	1.00	Depth to	0.39
	saturated zone	!	saturated zone	!	saturated zone	
471B:	 	 		 	 	l I
Dairyland	Somewhat limited		 Very limited		Somewhat limited	i
•	Content of large		· -	1.00	!	0.60
	stones	İ	saturated zone	İ	stones	į
	Depth to	0.39	Content of large	0.60	Depth to	0.39
	saturated zone		stones		saturated zone	
Emmert	 Not limited		Not limited		 Not limited	
471C:	 					
Dairyland	Somewhat limited	j	Very limited	j	Very limited	İ
	Content of large	0.60	Depth to	1.00	Slope	1.00
	stones		saturated zone		Content of large	0.60
	Depth to	0.39	Content of large	0.60	!	
	saturated zone Slope	0.37	stones Slope	0.37	Depth to saturated zone	0.39
	Blobe		Siope		Sacuraced Zone	
Emmert	Somewhat limited		Somewhat limited		Very limited	
	Slope	0.37	Slope	0.37	Slope	1.00
472A:	 	 		 	 	
Rockmarsh	Very limited	j	Very limited	j	 Very limited	j
	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Depth to	1.00	Depth to	1.00	: -	1.00
	saturated zone		saturated zone		saturated zone	
	Content of large	0.88	Content of large	0.88	Content of large	0.88
	stones	1	stones	1	stones	1

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings witho	ut	Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
472A: Clemens	 Very limited Flooding Depth to saturated zone Content of large stones	 1.00 1.00 0.23	 Very limited Flooding Depth to saturated zone Content of large stones	 1.00 1.00 0.23	Very limited Flooding Depth to saturated zone Content of large	 1.00 1.00 0.23
473A: Dairyland	 Somewhat limited Content of large stones Depth to saturated zone	1	 Very limited Depth to saturated zone Content of large stones	 1.00 0.60	 Somewhat limited Content of large stones Depth to saturated zone	 0.60 0.39
Skog	 Very limited Flooding 	 1.00 	 Very limited Flooding Depth to saturated zone	 1.00 0.99	 Very limited Flooding 	 1.00
484A: Greenwood	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00
Beseman	Very limited Depth to saturated zone Content of organic matter Subsidence Ponding	 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Subsidence Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Content of organic matter Subsidence Ponding	 1.00 1.00 1.00
485C: Lupton	 Very limited Depth to saturated zone Content of organic matter	 1.00 1.00	 Very limited Depth to saturated zone Content of organic matter	 1.00 1.00	 Very limited Depth to saturated zone Content of organic matter Slope	 1.00 1.00
Tawas	 Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Ponding 	 1.00 1.00 	saturated zone	 1.00 1.00 1.00
495B: Karlsborg Grettum	Depth to saturated zone	 0.98 	 Very limited Depth to saturated zone Somewhat limited	1	 Somewhat limited Depth to saturated zone Not limited	 0.98
Grettum	NOT 11m1ted	 	Somewhat limited Depth to saturated zone	 0.35 	NOT 11m1Ted	

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings witho	ut	Dwellings with basements	Dwellings with basements		Small commercial buildings	
	Rating class and	Value	Rating class and	Value	Rating class and	Value	
	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>	
495B: Perida	 Not limited 		 Somewhat limited Depth to saturated zone	 0.82	 Not limited 	 	
495C:	 		 		 	-	
Karlsborg	Depth to	0.98		1.00	· -	1.00	
	saturated zone Slope	0.04	saturated zone Slope	0.04	Depth to saturated zone	0.98	
	į	İ	į -	İ	İ	İ	
Grettum	Somewhat limited Slope 	0.04	Somewhat limited Depth to saturated zone	0.35	Very limited Slope 	1.00	
	į	İ	Slope	0.04		Ì	
Perida	 Somewhat limited Slope	0.04	 Somewhat limited Depth to saturated zone	0.82	 Very limited Slope	1.00	
	 		Slope	0.04	 		
	į	İ				Ì	
495D: Karlsborg	 Very limited Slope Depth to	 1.00 0.98		 1.00	 Very limited Slope Depth to	 1.00 0.98	
	saturated zone		Slope	1.00	saturated zone		
Grettum	 Very limited Slope 	 1.00	 Very limited Slope Depth to	 1.00 0.35	 Very limited Slope 	 1.00	
		i	saturated zone			İ	
Perida	 Very limited Slope 	 1.00 	 Very limited Slope Depth to saturated zone	 1.00 0.82	 Very limited Slope 	 1.00 	
	į	į		į		į	
496B: Karlsborg	 Somewhat limited Depth to saturated zone	 0.98	 Very limited Depth to saturated zone	 1.00	 Somewhat limited Depth to saturated zone	0.98	
496C:	 		 		 		
Karlsborg	Depth to	0.98		1.00	· -	1.00	
	saturated zone	0.04	saturated zone Slope	0.04	Depth to saturated zone	0.98	
						İ	
496D: Karlsborg	 		 Very limited		 Very limited		
Ralisbolg	Slope	1.00	: -	1.00	Slope	1.00	
	Depth to	0.98	saturated zone		Depth to	0.98	
	saturated zone		Slope 	1.00	saturated zone		
497A:	į	į		į		į	
Meenon	Very limited		Very limited		Very limited		
	Depth to	1.00	Depth to	1.00	Depth to	1.00	

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
521A: Dody	 Very limited Depth to saturated zone Shrink-swell Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Shrink-swell Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Shrink-swell Ponding	 1.00 1.00 1.00
523A: Nokasippi	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00
529B: Perida	 Not limited 	 	 Somewhat limited Depth to saturated zone	 0.82	 Not limited 	
531A: Stengel	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00
542B: Haugen, very stony	 Somewhat limited Depth to saturated zone	 0.39 	 Very limited Depth to saturated zone	 1.00	 Somewhat limited Depth to saturated zone	0.39
Haugen	 Somewhat limited Depth to saturated zone	 0.39 	 Very limited Depth to saturated zone	 1.00 	 Somewhat limited Depth to saturated zone	 0.39
542C: Haugen, very stony	 Somewhat limited Depth to saturated zone Slope	 0.39 0.04	 Very limited Depth to saturated zone Slope	 1.00 0.04	 Very limited Slope Depth to saturated zone	 1.00 0.39
Haugen	 Somewhat limited Depth to saturated zone Slope	 0.39 0.04	 Very limited Depth to saturated zone Slope	 1.00 0.04	 Very limited Slope Depth to saturated zone	 1.00 0.39
544F: Menahga	 Very limited Slope	1.00	 Very limited Slope	1.00	 Very limited Slope	1.00
Mahtomedi	 Very limited Slope	1.00	 Very limited Slope	1.00	 Very limited Slope	1.00
553B: Branstad	 Somewhat limited Depth to saturated zone	 0.39 	 Very limited Depth to saturated zone	 1.00 	 Somewhat limited Depth to saturated zone	 0.39
553C: Branstad	 Somewhat limited Depth to saturated zone Slope	0.39	 Very limited Depth to saturated zone Slope	 1.00 0.04	 Very limited Slope Depth to saturated zone	1.00

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings witho	ut	Dwellings with basements		 Small commercia buildings	1
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>
553D: Branstad	 Very limited Slope	 1.00	 Very limited Depth to	 1.00	 Very limited Slope	 1.00
	Depth to saturated zone	0.39	saturated zone Slope	1.00	Depth to saturated zone	0.39
555A:						
Fordum	Very limited	 1.00 1.00 1.00	Very limited	 1.00 1.00 1.00	Very limited	 1.00 1.00 1.00
557B: Shawano	 Not limited 	 	 Not limited 	 	 Not limited 	
557C: Shawano	 Somewhat limited Slope 	 0.04	 Somewhat limited Slope 	 0.04	 Very limited Slope	1.00
557D: Shawano	 Very limited Slope 	 1.00	 Very limited Slope 	 1.00	 Very limited Slope 	1.00
586A:		i		j		i
Chelmo	Very limited Depth to saturated zone	 1.00 	Very limited Depth to saturated zone	 1.00 	Very limited Depth to saturated zone	 1.00
	Shrink-swell Ponding	1.00 1.00	Ponding	1.00	Shrink-swell Ponding	1.00
600A: Haplosaprists	 Not rated	į Į	 Not rated	į Į	 Not rated	į Į
Psammaquents	 Not rated	 	 Not rated 	 	 Not rated	
615B: Cress	 Not limited 	 	 Not limited 	 	 Not limited 	
615C: Cress	 Somewhat limited Slope 	 0.04	 Somewhat limited Slope 	 0.04	 Very limited Slope	1.00
615D: Cress	 Very limited Slope	 1.00	 Very limited Slope	 1.00	 Very limited Slope	1.00
620C: Lundeen	 Somewhat limited Depth to hard bedrock	 0.46 	 Very limited Depth to hard bedrock	 1.00 	 Somewhat limited Slope Depth to hard bedrock	0.88
Haustrup	 Very limited Depth to hard bedrock	 1.00 	 Very limited Depth to hard bedrock	 1.00 	 Very limited Depth to hard bedrock Slope	1.00
Rock outcrop	 Not rated 	 	 Not rated 	 	 Not rated 	

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings witho	ut	Dwellings with basements	Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
621A: Bjorkland	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Shrink-swell Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	
623A: Capitola	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	saturated zone	 1.00 1.00	
624A: Ossmer	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	
631A: Giese	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	
632A: Aftad	 Somewhat limited Depth to saturated zone	 0.39 	 Very limited Depth to saturated zone	 1.00 	 Somewhat limited Depth to saturated zone	 0.39 	
632B: Aftad	 Somewhat limited Depth to saturated zone	 0.39 	 Very limited Depth to saturated zone	 1.00	 Somewhat limited Depth to saturated zone	 0.39	
632C: Aftad	 Somewhat limited Depth to saturated zone Slope	 0.39 0.04	 Very limited Depth to saturated zone Slope	 1.00 0.04	 Very limited Slope Depth to saturated zone	 1.00 0.39	
634C: Drylanding	 Very limited Depth to hard bedrock Content of large stones	 1.00 0.39	 Very limited Depth to hard bedrock Content of large stones	1.00	 Very limited Depth to hard bedrock Slope Content of large stones	 1.00 0.88 0.39	
Beartree	Depth to saturated zone Depth to hard bedrock	1.00 1.00	bedrock Content of large	1.00	saturated zone Depth to hard bedrock Content of large stones	 1.00 1.00 1.00	
Rock outcrop	 Not rated 	 	 Not rated 	 	 Not rated 	 	

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
635C:						
Drylanding	 Verv limited		 Very limited		 Very limited	
1	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Depth to hard	1.00	Depth to hard	1.00	Depth to hard	1.00
	bedrock		bedrock		bedrock	
	Content of large	0.39	Content of large	0.39	Slope	0.88
	stones		stones 		Content of large stones	0.39
Beartree	 Very limited		 Very limited		 Very limited	
	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	11 00	saturated zone	
	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to hard bedrock	1.00
	Content of large	1.00	Content of large	1.00	Content of large	1.00
	stones	i	stones	i	stones	i
	Ponding 	1.00	Ponding 	1.00	Ponding 	1.00
Rock outcrop	Not rated	į	 Not rated	į	Not rated	į
648B:		i		i		i
Sconsin	Somewhat limited	İ	Very limited	İ	Somewhat limited	j
	Depth to	0.98	Depth to	1.00	Depth to	0.98
	saturated zone		saturated zone		saturated zone	
669D:	ļ.	1	!	1		
Fremstadt, stony	: -	1	Very limited		Very limited	
	Slope	1.00	Slope	1.00	Slope	1.00
Pomroy	 Very limited		 Very limited		 Very limited	i
•	Slope	1.00	Slope	1.00	Slope	1.00
	Depth to	0.39	Depth to	1.00	Depth to	0.39
	saturated zone		saturated zone		saturated zone	
671B:		i		i		i
Spoonerhill, stony	Somewhat limited		Very limited		Somewhat limited	
	Depth to	0.39	Depth to	1.00	Depth to	0.39
	saturated zone		saturated zone		saturated zone	
Spoonerhill	 Somewhat limited		 Very limited		 Somewhat limited	
-F	Depth to	0.39	Depth to	1.00	Depth to	0.39
	saturated zone	į	saturated zone	į	saturated zone	į
706A:	 		 			
Winterfield	Very limited	į	Very limited	į	Very limited	i
	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
Totagatic	Very limited	İ	 Very limited	İ	 Very limited	i
	Flooding	1.00	Flooding	1.00	Flooding	1.00
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	11 00	saturated zone	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
715A:		i		i		1
/IJA:	·	1	i	1		i
Mora	Very limited		Very limited		Very limited	
	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
717B: Milaca		 0.39	Very limited	 1.00	 Somewhat limited	 0.39 0.12
717C: Milaca	 Somewhat limited Depth to saturated zone Slope	0.39	saturated zone	1.00	Depth to	 1.00 0.39
720F: Haustrup	 Very limited Depth to hard bedrock Slope	 1.00 1.00	 Very limited Depth to hard bedrock Slope	 1.00 1.00	Depth to hard	 1.00 1.00
Lundeen	 Very limited Slope Depth to hard bedrock	 1.00 0.46 	· -	 1.00 1.00	Depth to hard	 1.00 0.46
Rock outcrop	 Not rated 	İ	 Not rated 		Not rated	
726B: Sissabagama	 Not limited 	 	 Very limited Depth to saturated zone	 0.99 	 Not limited 	
742B: Milaca	 Somewhat limited Depth to saturated zone	 0.39 	 Very limited Depth to saturated zone	 1.00 	 Somewhat limited Depth to saturated zone	 0.39
742C: Milaca	Somewhat limited Depth to saturated zone Slope	 0.39 0.04	 Very limited Depth to saturated zone Slope	 1.00 0.04	 Very limited Slope Depth to saturated zone	 1.00 0.39
742D: Milaca	 Very limited Slope Depth to saturated zone	 1.00 0.39	 Very limited Depth to saturated zone Slope	 1.00 1.00	 Very limited Slope Depth to saturated zone	 1.00 0.39
755A: Moppet	 Very limited Flooding 	 1.00 	 Very limited Flooding Depth to saturated zone	 1.00 0.99	 Very limited Flooding 	1.00
Fordum	 Very limited Flooding Depth to saturated zone Ponding	 1.00 1.00 	 Very limited Flooding Depth to saturated zone Ponding	 1.00 1.00 1.00	 Very limited Flooding Depth to saturated zone Ponding	 1.00 1.00 1.00

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings without		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
771A: Lenroot	 Somewhat limited Depth to saturated zone	 0.39 	 Very limited Depth to saturated zone	 1.00	 Somewhat limited Depth to saturated zone	 0.39
812B: Mora	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	1.00
825A: Meehan	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00
896A: Wurtsmith	 Somewhat limited Depth to saturated zone	 0.39 	 Very limited Depth to saturated zone	 1.00 	Somewhat limited Depth to saturated zone	 0.39
980A: Soderbeck	Flooding	1.00 1.00	Depth to saturated zone Content of large stones	1.00	Depth to saturated zone	 1.00 1.00 0.45
1070C: Fremstadt	 Somewhat limited Slope	 0.16	 Somewhat limited Slope	 0.16	 Very limited Slope	 1.00
Cress	 Somewhat limited Slope 	 0.04	 Somewhat limited Slope 	 0.04	 Very limited Slope 	 1.00
1070D: Fremstadt	 Very limited Slope	 1.00	 Very limited Slope	 1.00	 Very limited Slope	1.00
Cress	 Very limited Slope 	 1.00	 Very limited Slope	 1.00	 Very limited Slope 	1.00
1080B: Spoonerhill	 Somewhat limited Depth to saturated zone	 0.39 	 Very limited Depth to saturated zone	 1.00	 Somewhat limited Depth to saturated zone	0.39
Spoonerhill, stony	 Somewhat limited Depth to saturated zone	 0.39 	 Very limited Depth to saturated zone	 1.00 	 Somewhat limited Depth to saturated zone	 0.39
Cress	 Not limited 	 	 Not limited 	 	 Not limited 	
Udorthents, earthen dams	 Not rated 	 	 Not rated 	 	 Not rated 	

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
2015: Pits	 Not rated		 Not rated	 	 Not rated	
2050: Landfill	 Not rated 	 	 Not rated 	 	 Not rated 	
3011A:		į		į		į
Barronett	Depth to	1.00	Very limited Depth to	1.00	Very limited Depth to	1.00
	saturated zone Ponding	1.00	saturated zone	1.00	saturated zone Ponding	1.00
	Shrink-swell	0.50			Shrink-swell	0.50
3082E:					 	
Braham	· -	!	Very limited	!	Very limited	
	Slope	1.00	Slope 	1.00 	Slope 	1.00
Shawano	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
3114A:			 		 	
Saprists	Very limited Ponding	1.00	Very limited Ponding	 1.00	Very limited Ponding	1.00
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone Content of	1.00	saturated zone Content of	 1.00	saturated zone Content of	1.00
	organic matter		organic matter		organic matter	
Aquents	 Very limited		 Very limited		 Very limited	
•	Ponding	1.00	Ponding	1.00	Ponding	1.00
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
Aquepts	 Very limited		 Very limited	 	 Very limited	
	Ponding	1.00	Ponding	1.00	Ponding	1.00
	Depth to saturated zone	1.00 	Depth to saturated zone	1.00 	Depth to saturated zone	1.00
3125A:			 		 	
Meehan	 Very limited		 Very limited		 Very limited	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
3126A: Wurtsmith	 Somewhat limited		 Very limited		 Somewhat limited	
	Depth to	0.39	Depth to	1.00	Depth to	0.39
	saturated zone		saturated zone		saturated zone	
3312B:	į	į		į	į	į
Glendenning, very stony	 Very limited		 Very limited		 Very limited	
-	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
Glendenning		:	Very limited	:	Very limited	į.
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		İ				İ

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings witho	ut	Dwellings with basements		Small commercial buildings 	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	1	limiting features	<u> </u>	limiting features	1
3336A:	 		 			
	 Very limited	i	 Very limited	i	 Very limited	i
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone	i	saturated zone	i	saturated zone	i
	Ponding	1.00	Ponding	1.00	Ponding	1.00
	[[ļ		
3403A:						
Loxley	Very limited Subsidence	1.00	Very limited Subsidence	1.00	Very limited Subsidence	1.00
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone	1	saturated zone	1	saturated zone	1
	Content of	1.00	Content of	1.00	Content of	1.00
	organic matter	1	organic matter	1	organic matter	1
	Ponding	1.00	Ponding	1.00	Ponding	1.00
Beseman	Very limited	i	 Very limited	İ	 Very limited	i
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone	İ	saturated zone	ĺ	saturated zone	Ì
	Content of	1.00	Subsidence	1.00	Content of	1.00
	organic matter		Ponding	1.00	organic matter	
	Subsidence	1.00			Subsidence	1.00
	Ponding	1.00		ļ	Ponding	1.00
_						
Dawson	Very limited	1 00	Very limited	1 00	Very limited	1 00
	Subsidence Depth to	1.00	Subsidence Depth to	1.00	Subsidence Depth to	1.00
	saturated zone	1	saturated zone	1	saturated zone	1
	Content of	1.00	Ponding	1.00	Content of	1.00
	organic matter				organic matter	
	Ponding	1.00		i	Ponding	1.00
	İ	İ		ĺ		İ
3429B:		[
Lara	Somewhat limited		Very limited		Somewhat limited	
	Depth to	0.98	Depth to	1.00	Depth to	0.98
	saturated zone		saturated zone		saturated zone	
3429C:	 		 		 	
Lara	Somewhat limited	i	 Very limited	i	 Very limited	i
	Depth to	0.98	Depth to	1.00	Slope	1.00
	saturated zone	i	saturated zone	i	Depth to	0.98
	Slope	0.04	Slope	0.04	saturated zone	
		1				
3446A:				ļ		
Newson	: -	1	Very limited	1	Very limited	
	Depth to	1.00	-	1.00	Depth to	1.00
	saturated zone	1 00	saturated zone	1 00	saturated zone	1 00
	Ponding	1.00	Ponding	1.00	Ponding	1.00
3448B:	 		 	i		i
Grettum	Not limited	i	Somewhat limited	i	Not limited	i
		İ	Depth to	0.35		İ
			saturated zone			
	!	[ļ		1
3448C:		1		ļ		
	Somewhat limited		Somewhat limited		Very limited	
Grettum	1					
Grettum	Slope	0.04	Depth to	0.35	Slope	1.00
Grettum	Slope 	0.04	Depth to saturated zone Slope	0.35	Slope 	1.00

Table 17a.--Building Site Development--Continued

Map symbol and soil name	 Dwellings witho basements	ut	 Dwellings with basements		Small commercial buildings	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3510B: Pomroy		 	 Very limited		 Somewhat limited	
	Depth to saturated zone 	0.39 	Depth to saturated zone	1.00 	Depth to saturated zone	0.39
Fremstadt	İ	İ	Not limited	 	Not limited	
Fremstadt, stony	Not limited 	 	Not limited 	 	Not limited 	
3510C: Pomroy	 Somewhat limited Depth to saturated zone Slope	 0.39 0.16	 Very limited Depth to saturated zone Slope	 1.00 0.16	 Very limited Slope Depth to saturated zone	 1.00 0.39
Fremstadt	 Somewhat limited Slope	 0.16	 Somewhat limited Slope	 0.16	 Very limited Slope	 1.00
Fremstadt, stony	 Somewhat limited Slope 	 0.16 	 Somewhat limited Slope 	 0.16	 Very limited Slope 	1.00
3511A: Bushville	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00
3516A: Slimlake	 Not limited 	 	 Very limited Depth to saturated zone	 0.99 	 Not limited 	
3625A: Lino	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	 1.00
3626A: Crex	 Somewhat limited Depth to saturated zone	 0.39 	 Very limited Depth to saturated zone	 1.00 	 Somewhat limited Depth to saturated zone	 0.39
3629B: Perida	 Not limited 	 	 Somewhat limited Depth to saturated zone	 0.82 	 Not limited 	
3636B: Plainbo	 Not limited 	 	 Somewhat limited Depth to soft bedrock	 0.46 	 Not limited 	
3636C: Plainbo	 Somewhat limited Slope 	 0.04 	Somewhat limited Depth to soft bedrock Slope	 0.46 0.04	 Very limited Slope 	 1.00

Table 17a.--Building Site Development--Continued

Map symbol and soil name	Dwellings without basements		Dwellings with basements	Dwellings with basements		1
	 Rating class and limiting features	Value	 Rating class and limiting features	Value	 Rating class and limiting features	Value
M-W: Miscellaneous water	 Not rated 	 	 Not rated 	 	 Not rated 	
W: Water	 Not rated 	 	 Not rated 	 	 Not rated 	

Table 17b.--Building Site Development

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

Map symbol and soil name	Local roads an	ıd	Shallow excavati	ons	Lawns and landscaping 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Valu
3A:	 		 		 	
Totagatic	Very limited		Very limited		Very limited	
	Depth to	1.00	Depth to	1.00	Flooding	1.00
	saturated zone		saturated zone		Depth to	1.00
	Subsidence	1.00	Cutbanks cave	1.00	saturated zone	
	Flooding	1.00	Ponding	1.00	Ponding	1.00
	Ponding	1.00	Flooding	0.80		
	Frost action	0.50	 		 	
Bowstring	 Very limited		 Very limited		 Very limited	
	Depth to	1.00	Depth to	1.00	Flooding	1.00
	saturated zone		saturated zone		Content of	1.00
	Subsidence	1.00	Cutbanks cave	1.00	organic matter	
	Frost action	1.00	Ponding	1.00	Depth to	1.00
	Flooding	1.00	Content of	1.00	saturated zone	
	Ponding	1.00	organic matter		Ponding	1.00
	l		Flooding	0.80	 	
Ausable	 Very limited		 Very limited		 Very limited	
	Depth to	1.00	Depth to	1.00	Flooding	1.00
	saturated zone		saturated zone		Depth to	1.00
	Subsidence	1.00	Cutbanks cave	1.00	saturated zone	
	Flooding	1.00	Ponding	1.00	Ponding	1.00
	Ponding	1.00	Flooding	0.80		
	Frost action	0.50	l		 	
12A:						
Makwa	Very limited		Very limited		Very limited	
	Depth to	1.00	Depth to	1.00	Flooding	1.00
	saturated zone		saturated zone		Depth to	1.00
	Frost action	1.00	Cutbanks cave	1.00	saturated zone	
	Flooding	1.00	Ponding	1.00	Ponding	1.00
	Ponding	1.00	Flooding	0.80	Content of large	0.99
	Content of large stones	0.11	Content of large stones	0.11	stones	
				į		į
22A:						
Comstock	Very limited		Very limited		Very limited	
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone	1 00	saturated zone		saturated zone	1
	Frost action	1.00	Cutbanks cave	1.00	 	1
	Low strength Shrink-swell	1.00 0.50			 	
273.					 	
27A: Scott Lake		1	 Very limited	 	 Somewhat limited	1
DOUGL Hand	Frost action	0.50	Very limited Cutbanks cave	1.00	!	0.01
	FIOSC ACCION	10.50	Depth to	0.99	Droughty	10.01
	 		saturated zone	0.99	 	1
	I	1	Bacuraceu Zone	1	I	1

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads and streets		 Shallow excavati 	ons	Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
28B: Haugen, very stony	 Somewhat limited Frost action Depth to saturated zone	 0.50 0.19 		 1.00 1.00	 Somewhat limited Depth to saturated zone Content of large stones	0.19
Haugen		 0.50 0.19 	: -	 1.00 1.00	Somewhat limited Depth to saturated zone Content of large stones	0.19
Rosholt, very stony	 Somewhat limited Frost action 	 0.50 	 Very limited Cutbanks cave 	 1.00 		 0.02 0.01
Rosholt	 Somewhat limited Frost action	 0.50	 Very limited Cutbanks cave 	1.00	 Somewhat limited Droughty	0.01
28C: Haugen, very stony	 Somewhat limited Frost action Depth to saturated zone Slope	 0.50 0.19 0.04	 Very limited Depth to saturated zone Cutbanks cave Slope	 1.00 1.00 0.04	Somewhat limited Depth to saturated zone Slope Content of large stones	 0.19 0.04 0.03
Haugen	 Somewhat limited Frost action Depth to saturated zone Slope	 0.50 0.19 0.04	Cutbanks cave	 1.00 1.00 0.04		 0.19 0.04 0.03
Rosholt, very stony	 Somewhat limited Frost action Slope 	 0.50 0.04 	 Very limited Cutbanks cave Slope 	 1.00 0.04 	-	 0.04 0.02 0.01
Rosholt	 Somewhat limited Frost action Slope	 0.50 0.04	 Very limited Cutbanks cave Slope	 1.00 0.04	 Somewhat limited Slope Droughty	0.04
38A: Rosholt	 Somewhat limited Frost action 	 0.50	 Very limited Cutbanks cave 	 1.00	 Somewhat limited Droughty 	0.01
38B: Rosholt	 Somewhat limited Frost action	 0.50	 Very limited Cutbanks cave	 1.00	 Somewhat limited Droughty 	0.01
38C: Rosholt	 Somewhat limited Frost action Slope	 0.50 0.04	 Very limited Cutbanks cave Slope	 1.00 0.04	 Somewhat limited Slope Droughty	0.04

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads and		Shallow excavations		Lawns and landscaping 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
38D:			 		 	
Rosholt	Very limited	i	 Very limited	İ	 Very limited	i
	Slope	1.00	Cutbanks cave	1.00	Slope	1.00
	Frost action	0.50	Slope	1.00	Droughty	0.01
42D:			 		 	
Amery	Very limited	i	 Very limited	i	 Very limited	i
	Slope	1.00	Cutbanks cave	1.00	Slope	1.00
	Frost action	0.50	Slope 	1.00 	Content of large stones	0.03
43B:			 		 	
Antigo			 Very limited		Not limited	i
•	Frost action	0.50	! -	1.00		į
43C:			 		 	
	Somewhat limited	i	 Very limited	i	Somewhat limited	
	Frost action	0.50	Cutbanks cave	1.00	Slope	0.37
	Slope	0.37	Slope	0.37		
63A:			 		 	
Crystal Lake	Very limited		Very limited		Somewhat limited	
	Frost action	1.00	Depth to	1.00	Depth to	0.19
	Low strength	1.00	saturated zone		saturated zone	
	Shrink-swell	0.50	Cutbanks cave	1.00	 	
	Depth to saturated zone				 	
63B:			 		 	
Crystal Lake	 Very limited		 Very limited	i	Somewhat limited	i
•	Frost action	1.00	Depth to	1.00	Depth to	0.19
	Low strength	1.00	saturated zone		saturated zone	
	Shrink-swell	0.50	Cutbanks cave	1.00		
	Depth to saturated zone	0.19	 		 	
63C: Crystal Lake	 Very limited		 Very limited		Somewhat limited	
	Frost action	1.00	Depth to	1.00	Depth to	0.19
	Low strength	1.00	saturated zone	į	saturated zone	j
	Shrink-swell	0.50	Cutbanks cave	1.00	Slope	0.04
	Depth to	0.19	Slope	0.04		
	saturated zone Slope	0.04				
64A:			 			
Totagatic	 Verv limited		 Very limited		 Very limited	i
	Depth to	1.00		1.00	Flooding	1.00
	saturated zone	į	saturated zone	į	Depth to	1.00
	Subsidence	1.00	Cutbanks cave	1.00	saturated zone	
	Flooding	1.00	Ponding	1.00	Ponding	1.00
	Ponding Frost action	1.00	Flooding 	0.80	 	
	İ	j		į		į
Winterfield	: -	:	Very limited		Very limited	
	Depth to	1.00	Depth to	1.00	Flooding	1.00
	saturated zone	1.00	saturated zone Cutbanks cave	1.00	Depth to saturated zone	1.00
			Flooding	0.80	Droughty	0.50
	i	i	i	i		1

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads and streets		 Shallow excavati 	ons	Lawns and landscaping 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
69C: Keweenaw	 Somewhat limited Slope 	 0.16 	 Very limited Cutbanks cave Slope 	 1.00 0.16	 Somewhat limited Slope Droughty Content of large stones	 0.16 0.06 0.01
Sayner	 Somewhat limited Slope 	 0.16 	 Very limited Cutbanks cave Slope 	 1.00 0.16 		 0.94 0.16 0.05
Vilas	 Somewhat limited Slope 	 0.16 	 Very limited Cutbanks cave Slope	 1.00 0.16	 Somewhat limited Droughty Slope 	 0.42 0.16
69E:						
Keweenaw	Very limited Slope -	 1.00 	Very limited Slope Cutbanks cave 	 1.00 1.00 	Very limited Slope Droughty Content of large stones	 1.00 0.06 0.01
Sayner	 Very limited Slope 	 1.00 	 Very limited Slope Cutbanks cave 	 1.00 1.00 	 Very limited Slope Droughty Content of large stones	 1.00 0.94 0.05
Vilas	 Very limited Slope 	 1.00 	 Very limited Slope Cutbanks cave	 1.00 1.00	 Very limited Slope Droughty 	 1.00 0.42
82B:		İ	İ	ĺ	ĺ	Ì
Cutaway	Somewhat limited Shrink-swell Depth to saturated zone	 0.50 0.19	Very limited Depth to saturated zone Cutbanks cave	 1.00 1.00	Somewhat limited Depth to saturated zone	0.19
Branstad	 Somewhat limited Frost action Depth to saturated zone	 0.50 0.19 	 Very limited Depth to saturated zone Cutbanks cave	 1.00 0.10	 Somewhat limited Depth to saturated zone	 0.19
82C:		İ	İ	ĺ	İ	Ì
Cutaway	Somewhat limited Shrink-swell Depth to saturated zone	 0.50 0.19 	Very limited Depth to saturated zone Cutbanks cave	 1.00 1.00	Somewhat limited Depth to saturated zone Slope	 0.19 0.04
Branstad	Frost action Depth to saturated zone	0.04 0.50 0.19	Slope Very limited Depth to saturated zone Cutbanks cave	0.04 1.00 0.10	 Somewhat limited Depth to saturated zone Slope	 0.19 0.04
	Slope 	0.04	Slope 	0.04	 	

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an	ıd	Shallow excavati 	ons	Lawns and landscaping 	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features		limiting features		limiting features	
	!			[!	
83A:		ļ				ļ
Smestad	· -		Very limited		Very limited	
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Frost action	0.50	Too clayey Cutbanks cave	1.00	 	l I
			cacbanks cave			İ
85B:		İ		İ		i
Taylor	Very limited	İ	Very limited	İ	Very limited	İ
	Shrink-swell	1.00	Depth to	1.00	Depth to	0.99
	Low strength	1.00	saturated zone		saturated zone	
	Depth to	0.99	Too clayey	1.00		
	saturated zone		Cutbanks cave	0.10		
	Frost action	0.50				
					!	
85C:						
Taylor	Very limited		Very limited	:	Very limited	
	Shrink-swell	1.00	Depth to	1.00	Depth to	0.99
	Low strength	1.00	saturated zone	1 00	saturated zone	0.04
	Depth to saturated zone	0.99	Too clayey Cutbanks cave	1.00	Slope	0.04
	Frost action	0.50	Slope	0.10	 	
	Slope	0.04	biope		 	İ
86A:		İ		İ		i
Indus	Very limited	İ	Very limited	İ	Very limited	ĺ
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Frost action	1.00	Too clayey	1.00	Ponding	1.00
	Low strength	1.00	Ponding	1.00		
	Shrink-swell	1.00	Cutbanks cave	0.10		
	Ponding	1.00				
31 22 22	 Town limited		 Vamus limited		 Town limited	
Alango	Very limited Shrink-swell	1.00	Very limited Depth to	1.00	Very limited Depth to	1.00
	Depth to	1.00	saturated zone	1	saturated zone	1
	saturated zone	1	Too clayey	1.00	Baculaced Zolle	
	Frost action	1.00	Cutbanks cave	0.10		
	Low strength	1.00				i
	İ	İ		i		i
89A:				İ	İ	ĺ
Wildwood	Very limited		Very limited		Very limited	
	Depth to	1.00	Depth to	1.00	Content of	1.00
	saturated zone		saturated zone		organic matter	
	Frost action	1.00	Too clayey	1.00	Depth to	1.00
	Low strength	1.00		1.00	saturated zone	1
	Shrink-swell	1.00	Cutbanks cave	0.10	Ponding	1.00
	Ponding	1.00	 		 	1
96B:	 	I	 		 	1
Karlsborg	Somewhat limited		 Very limited		 Somewhat limited	1
-	Depth to	0.75	Depth to	1.00	Depth to	0.75
	saturated zone	İ	saturated zone	i	saturated zone	ĺ
	Frost action	0.50	Too clayey	1.00	Too sandy	0.50
	į	İ	Cutbanks cave	1.00	Droughty	0.26

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads and streets		 Shallow excavati 	ons	Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
96C: Karlsborg	 Somewhat limited Depth to saturated zone	 0.75	 Very limited Depth to saturated zone	 1.00	 Somewhat limited Depth to saturated zone	0.75
	Frost action Slope	0.50	Too clayey	1.00 1.00 0.04	Too sandy	0.50
96D:	 		 			
Karlsborg	Slope Depth to saturated zone	1.00 0.75	saturated zone Too clayey	1.00 1.00	Depth to saturated zone	1.00
	Frost action	0.50	Cutbanks cave	1.00 1.00	Too sandy Droughty	0.50
100B: Menahga	 Not limited 		Stope 	 1.00	Droughty Somewhat limited Droughty Too sandy	0.20
100C: Menahga	 Somewhat limited Slope 	 0.04	 Very limited Cutbanks cave Slope	 1.00 0.04	 Somewhat limited Droughty Slope	 0.51 0.04
100D: Menahga	 Very limited Slope 	 1.00	 Very limited Cutbanks cave Slope	 1.00 1.00	: -	 1.00 0.51
120B: Kost	 Not limited 	 	 Very limited Cutbanks cave 	 1.00	 Somewhat limited Droughty 	0.50
127D: Amery	 Very limited Slope Frost action	 1.00 0.50	 Very limited Cutbanks cave Slope	 1.00 1.00	 Very limited Slope Content of large stones	 1.00 0.03
Rosholt	 Very limited Slope Frost action 	 1.00 0.50 	 Very limited Cutbanks cave Slope 	 1.00 1.00 		 1.00 0.02 0.01
127E:	 		 		 	
Amery	Very limited Slope Frost action	 1.00 0.50	Very limited Slope Cutbanks cave	 1.00 1.00	Very limited Slope Content of large stones	1.00
Rosholt	 Very limited Slope Frost action 	 1.00 0.50 	:	 1.00 1.00 	-	 1.00 0.02 0.01

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an	đ	Shallow excavations		Lawns and landsca	aping
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
151A: Bluffton	 Very limited Depth to saturated zone Frost action Ponding Shrink-swell	 1.00 1.00 1.00 0.50	 Very limited Depth to saturated zone Ponding Cutbanks cave	 1.00 1.00 0.10	Very limited Depth to saturated zone Ponding	 1.00 1.00
152A: Alstad	 Very limited Depth to saturated zone Frost action Shrink-swell	 1.00 1.00 0.50	 Very limited Depth to saturated zone Cutbanks cave	 1.00 0.10	Very limited Depth to saturated zone	 1.00
154E: Cushing	 Very limited Slope Shrink-swell Frost action	 1.00 0.50 0.50	 Very limited Slope Cutbanks cave	 1.00 0.10	 Very limited Slope 	 1.00
156B: Magnor, very stony	 Very limited Depth to saturated zone Frost action	 1.00 0.50	Very limited Depth to saturated zone Dense layer Cutbanks cave	 1.00 0.50 0.10	 Very limited Depth to saturated zone Content of large stones	 1.00 0.01
Magnor	 Very limited Depth to saturated zone Frost action	 1.00 0.50	 Very limited Depth to saturated zone Dense layer Cutbanks cave	 1.00 0.50 0.10	 Very limited Depth to saturated zone 	 1.00
157B: Freeon, very stony	 Very limited Depth to saturated zone Frost action	 1.00 0.50	Very limited Depth to saturated zone Dense layer Cutbanks cave	 1.00 0.50 0.10	 Very limited Depth to saturated zone	 1.00
Freeon	 Very limited Depth to saturated zone Frost action	 1.00 0.50	 Very limited Depth to saturated zone Dense layer Cutbanks cave	 1.00 0.50 0.10	 Very limited Depth to saturated zone Content of large stones	 1.00 0.01
157C: Freeon, very stony	 Very limited Depth to saturated zone Frost action Slope	 1.00 0.50 0.04	Very limited Depth to saturated zone Dense layer Cutbanks cave Slope	 1.00 0.50 0.10 0.04	Very limited Depth to saturated zone Slope	 1.00 0.04
Freeon	Very limited Depth to saturated zone Frost action Slope	 1.00 0.50 0.04	Very limited Depth to saturated zone Dense layer Cutbanks cave Slope	 1.00 0.50 0.10 0.04	Very limited Depth to saturated zone Slope Content of large stones	 1.00 0.04 0.01

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an	nd	Shallow excavati 	ons	Lawns and landsca	ping
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
160A: Oesterle	Very limited Depth to saturated zone Frost action	 1.00 0.50	Very limited Depth to saturated zone Cutbanks cave	 1.00 1.00	 Very limited Depth to saturated zone	 1.00
165B: Elderon	 Somewhat limited Content of large stones 	 0.14 	 Very limited Cutbanks cave Content of large stones	1.00		 0.94 0.01
185B: Tradelake	Very limited Shrink-swell Low strength Depth to saturated zone Frost action	 1.00 1.00 0.75 0.50	 Very limited Depth to saturated zone Too clayey Cutbanks cave	 1.00 1.00 1.00	 Somewhat limited Depth to saturated zone 	 0.75
Taylor	 Very limited Shrink-swell Low strength Depth to saturated zone Frost action	 1.00 1.00 0.99 0.50	 Very limited Depth to saturated zone Too clayey Cutbanks cave	 1.00 1.00 0.10	 Very limited Depth to saturated zone 	0.99
185C: Tradelake	Very limited Shrink-swell Low strength Depth to saturated zone Frost action Slope	 1.00 1.00 0.75 0.50 0.04	 Very limited Depth to saturated zone Too clayey Cutbanks cave Slope	 1.00 1.00 1.00 0.04	Somewhat limited Depth to saturated zone Slope	 0.75 0.04
Taylor	Very limited Shrink-swell Low strength Depth to saturated zone Frost action Slope	 1.00 1.00 0.99 0.50 0.04		 1.00 1.00 0.10 0.04	 Very limited Depth to saturated zone Slope 	 0.99 0.04
185D: Tradelake	Very limited Shrink-swell Low strength Slope Frost action Depth to saturated zone	 1.00 1.00 1.00 0.50 0.19	 Very limited Depth to saturated zone Too clayey Cutbanks cave Slope	 1.00 1.00 1.00 1.00	 Very limited Slope Depth to saturated zone	 1.00 0.19
Taylor	Very limited Shrink-swell Low strength Slope Depth to saturated zone Frost action	 1.00 1.00 1.00 0.99 0.50		 1.00 1.00 1.00 0.10	 Very limited Slope Depth to saturated zone 	 1.00 0.99

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads and streets		Shallow excavati	ons	Lawns and landsca	ping
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
185E: Tradelake	Shrink-swell Slope Low strength Frost action Depth to	 1.00 1.00 1.00 0.50 0.19	saturated zone	 1.00 1.00 1.00	 Very limited Slope Depth to saturated zone	 1.00 0.19
Taylor	saturated zone 	 1.00 1.00 1.00 0.99 0.50	saturated zone	 1.00 1.00 1.00 0.10	 Very limited Slope Depth to saturated zone	 1.00 0.99
189A: Siren	 Very limited Depth to saturated zone Low strength Shrink-swell Frost action	 1.00 1.00 1.00 0.50	saturated zone Too clayey	 1.00 0.88 0.10	 Very limited Depth to saturated zone 	1.00
193A: Minocqua	 Very limited Depth to saturated zone Frost action Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Cutbanks cave Ponding	 1.00 1.00 1.00	saturated zone	 1.00 1.00
337A: Plover	 Very limited Depth to saturated zone Frost action	 1.00 0.50	saturated zone	 1.00 1.00	 Very limited Depth to saturated zone 	 1.00
368B: Mahtomedi	 Not limited 		 Very limited Cutbanks cave	1.00	 Very limited Droughty	1.00
Cress	 Not limited 		 Very limited Cutbanks cave 	1.00	 Somewhat limited Droughty 	0.13
368C: Mahtomedi	 Somewhat limited Slope	 0.04	 Very limited Cutbanks cave Slope	 - 1.00 0.04	 Very limited Droughty Slope	 1.00 0.04
Cress	 Somewhat limited Slope	 0.04 	 Very limited Cutbanks cave Slope	 1.00 0.04	 Somewhat limited Droughty Slope	0.13
368D: Mahtomedi	 Very limited Slope 	 1.00	 Very limited Cutbanks cave Slope	 1.00 1.00	 Very limited Slope Droughty	 1.00 1.00

Table 17b.--Building Site Development--Continued

Map symbol and soil name	 Local roads an streets	d	 Shallow excavati 	Shallow excavations		 Lawns and landscaping 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
368D: Cress	 Very limited Slope 	 1.00	 Very limited Cutbanks cave Slope	 1.00 1.00		 1.00 0.13	
368E: Mahtomedi	 Very limited Slope 	 1.00	 Very limited Slope Cutbanks cave	 1.00		 1.00 1.00	
Cress	 Very limited Slope	 1.00 	 Very limited Slope Cutbanks cave	 1.00 1.00	· -	 1.00 0.13	
380B: Cress	 Not limited 	 	 Very limited Cutbanks cave	 1.00	 Somewhat limited Droughty	0.13	
Rosholt	 Somewhat limited Frost action	0.50	 Very limited Cutbanks cave	1.00	 Somewhat limited Droughty	0.01	
380C: Cress	 Somewhat limited Slope 	 0.04	 Very limited Cutbanks cave Slope	 1.00 0.04		 0.13 0.04	
Rosholt	 Somewhat limited Frost action Slope	 0.50 0.04	 Very limited Cutbanks cave Slope	 1.00 0.04		 0.04 0.01	
380D: Cress	 Very limited Slope 	 1.00	 Very limited Cutbanks cave Slope	 1.00 1.00	:	 1.00 0.13	
Rosholt	 Very limited Slope Frost action	 1.00 0.50	1	 1.00 1.00	:	 1.00 0.01	
383B: Mahtomedi	 Not limited 		 Very limited Cutbanks cave	 1.00	 Very limited Droughty 	1.00	
383C: Mahtomedi	 Somewhat limited Slope 	 0.04 	 Very limited Cutbanks cave Slope	 1.00 0.04	 Very limited Droughty Slope	1.00	
383D: Mahtomedi	 Very limited Slope 	 1.00 	 Very limited Cutbanks cave Slope	 1.00 1.00	 Very limited Slope Droughty	1.00	

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an streets	d	Shallow excavati	ons	Lawns and landscaping 		
	Rating class and	Value	Rating class and	Value	Rating class and	Value	
	limiting features	<u>i</u>	limiting features	<u> </u>	limiting features	<u>i</u>	
392C:	 		 		 		
Rockmarsh	 Very limited	İ	 Very limited	İ	 Very limited	i	
	Depth to	1.00	Depth to	1.00	Depth to	1.00	
	saturated zone		saturated zone		saturated zone		
	Content of large	0.88	Cutbanks cave	1.00	Content of large	1.00	
	stones		Content of large	0.88			
	Frost action	0.50	stones		Slope	0.37	
	Slope	0.37	Dense layer	0.50	Droughty	0.01	
	 		Slope	0.37	 	l I	
Dairyland	 Somewhat limited		 Very limited	i	 Somewhat limited	i	
-	Content of large	:	_	1.00	Slope	0.37	
	stones	į	saturated zone	į	Droughty	0.32	
	Slope	0.37	Cutbanks cave	1.00	Depth to	0.19	
	Depth to	0.19	Content of large	0.60	saturated zone		
	saturated zone		stones				
			Dense layer	0.50			
			Slope	0.37			
Makwa	 Verv limited		 Very limited	 	 Very limited		
	Depth to	1.00	_	1.00	: -	1.00	
	saturated zone	İ	saturated zone	i	saturated zone	i	
	Frost action	1.00	Cutbanks cave	1.00	Content of large	0.99	
	Content of large	0.11	Content of large	0.11	stones		
	stones		stones	ļ			
396B:]	1	 		
Friendship	Not limited	İ	 Very limited	İ	 Somewhat limited	i	
			Cutbanks cave	1.00		0.91	
		İ	Depth to	0.35		0.50	
	İ	į	saturated zone	İ	į	İ	

Wurtsmith	!	0.19	Very limited	!	Somewhat limited		
	Depth to saturated zone	0.19	Depth to saturated zone	1.00	Droughty Too sandy	0.87	
	saturated zone		Cutbanks cave	1.00	Depth to	0.19	
		İ			saturated zone		
	İ	İ		İ	į	į	
Grayling	Not limited		Very limited	1	Very limited		
			Cutbanks cave	1.00	Droughty	1.00	
	 		 		Too sandy	0.50	
397A:	 			i	 	i	
Perchlake	 Very limited	i	 Very limited	i	 Very limited	i	
	Depth to	1.00	Depth to	1.00	Depth to	1.00	
	saturated zone	İ	saturated zone	ĺ	saturated zone	ĺ	
		[Cutbanks cave	1.00	Droughty	0.36	
300D.	 		l I		 	1	
399B: Grayling	 Not limited	 	 Very limited	 	 Very limited	1	
		i	Cutbanks cave	1.00	Droughty	1.00	
		İ			Too sandy	0.50	
399C:	 Comprehent		 		 	1	
Grayling	Slope	0.04	Very limited Cutbanks cave	1.00	Very limited Droughty	1.00	
	 probe		Slope	0.04	Too sandy	0.50	
		i	, <i></i> -		Slope	0.04	
	!	!	1	1		1	

Table 17b.--Building Site Development--Continued

Map symbol and soil name	 Local roads an streets 	d	Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
399D: Grayling	 Very limited Slope 	 1.00 	 Very limited Cutbanks cave Slope	 1.00 1.00	 Very limited Droughty Slope Too sandy	 1.00 1.00 0.50
406A: Loxley	 Very limited	 	 Very limited		 Very limited	
loxicy	Depth to saturated zone Subsidence Ponding Frost action	1.00 1.00 1.00 1.00	Depth to saturated zone Content of organic matter Ponding Cutbanks cave	 1.00 1.00 1.00 0.10	Content of organic matter Depth to saturated zone Ponding	 1.00 1.00 1.00
4055						
407A: Seelyeville	Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	 1.00	 Very limited Content of organic matter	 1.00
	Subsidence Ponding Frost action	1.00 1.00 1.00	Content of organic matter Ponding Cutbanks cave	1.00 1.00 0.10	Depth to saturated zone Ponding	1.00 1.00
Markey	 Very limited Depth to saturated zone Frost action Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Cutbanks cave Ponding Content of organic matter	 1.00 1.00 1.00	Very limited Content of organic matter Depth to saturated zone Ponding	 1.00 1.00 1.00
440-	į	į		į		į
410A: Seelyeville	 Very limited Depth to saturated zone Subsidence Ponding Frost action	 1.00 1.00 1.00	Very limited Depth to saturated zone Content of organic matter Ponding Cutbanks cave	 1.00 1.00 1.00 0.10		 1.00 1.00 1.00
Cathro	 Very limited Depth to saturated zone Subsidence Frost action	 1.00 1.00	Very limited Depth to saturated zone Ponding Contact of	 1.00 1.00	organic matter Depth to	 1.00 1.00
419A:	Ponding	1.00 1.00 	Content of organic matter Cutbanks cave 	1.00 0.10 	saturated zone Ponding	1.00
Seelyeville	 Very limited Depth to saturated zone Subsidence Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Content of	 1.00 1.00	 Very limited Content of organic matter Depth to saturated zone	1.00
	Ponding Frost action 	1.00 1.00 	organic matter Ponding Cutbanks cave	 1.00 0.10 	saturated zone Ponding 	1.00

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an streets	d	Shallow excavati	ons	Lawns and landsca	aping
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	1	limiting features	<u> </u>
419A:	 		 	 	 	l I
Cathro	 Very limited		 Very limited	 	 Very limited	
Cacinio	Depth to	1.00	Depth to	1.00	Content of	1.00
	saturated zone	1	saturated zone	1	organic matter	1
	Subsidence	1.00	Ponding	1.00	Depth to	1.00
	Frost action	1.00	Content of	1.00	saturated zone	1
	Ponding	1.00	organic matter	1	Ponding	1.00
	ronaing	1	Cutbanks cave	0.10	ronarng 	1
					! 	i
Markey	 Very limited		 Very limited		 Very limited	
	Depth to	1.00	Depth to	1.00	Content of	1.00
	saturated zone		saturated zone		organic matter	
	Frost action	1.00	Cutbanks cave	1.00	Depth to	1.00
	Ponding	1.00	Ponding	1.00	saturated zone	1
			Content of	1.00	Ponding	1.00
	i I	i	organic matter			
		i		İ		i
421A:	j	į		į	İ	İ
Dora	Very limited		Very limited		Very limited	
	Depth to	1.00	Depth to	1.00	Content of	1.00
	saturated zone		saturated zone		organic matter	
	Frost action	1.00	Ponding	1.00	Depth to	1.00
	Ponding	1.00	Content of	1.00	saturated zone	
			organic matter		Ponding	1.00
			Cutbanks cave	0.10		
			Too clayey	0.04		
Marala and	 					
Markey	Very limited		Very limited		Very limited	
	Depth to	1.00	Depth to	1.00	Content of	1.00
	saturated zone	1 00	saturated zone	1 00	organic matter	1 00
	Frost action	1.00	Cutbanks cave	1.00 1.00	Depth to saturated zone	1.00
	Ponding	1	Content of	1.00	Ponding	1.00
	 		organic matter	1.00	ronarng 	1
Seelyeville	 Very limited	i	 Very limited	İ	 Very limited	i
-	Depth to	1.00	Depth to	1.00	Content of	1.00
	saturated zone	i	saturated zone	İ	organic matter	i
	Subsidence	1.00	Content of	1.00	Depth to	1.00
	Ponding	1.00	organic matter	İ	saturated zone	ĺ
	Frost action	1.00	Ponding	1.00	Ponding	1.00
			Cutbanks cave	0.10		
422A:						1
Seelyeville			Very limited	'	Very limited	
	Depth to	1.00	Depth to	1.00	Content of	1.00
	saturated zone	1 00	saturated zone	1 00	organic matter	1.00
	Subsidence Ponding	1.00	Content of	1.00	Depth to	11.00
	Ponding Frost action	1.00	organic matter Ponding	1.00	saturated zone	1.00
		1	Ponding Cutbanks cave	0.10	FOUGTING	1
	Flost action			10.10	I .	1
Cathro		 			 Very limited	
Cathro	 Very limited	 1.00	 Very limited	 1.00	 Very limited Content of	1.00
Cathro	 			1		1.00
Cathro	 Very limited Depth to		 Very limited Depth to	1	Content of	 1.00 1.00
Cathro	 Very limited Depth to saturated zone	1.00	 Very limited Depth to saturated zone	1.00	Content of organic matter	i
Cathro	 Very limited Depth to saturated zone Subsidence	1.00	 Very limited Depth to saturated zone Ponding	1.00 1.00	Content of organic matter Depth to	i

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads and		Shallow excavati	Shallow excavations		Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
422A: Rondeau	Depth to		Very limited Depth to	 1.00	 Very limited Content of		
	saturated zone Subsidence Frost action Ponding	 1.00 1.00 1.00	saturated zone Ponding Content of organic matter Cutbanks cave	 1.00 1.00 0.10	organic matter Depth to saturated zone Ponding	 1.00 1.00	
426B: Emmert	 Not limited 		Very limited Cutbanks cave	 1.00 	 Very limited Droughty Content of large stones	 1.00 0.01	
Mahtomedi	 Not limited 		 Very limited Cutbanks cave	1.00	 Very limited Droughty	1.00	
Menahga	 Not limited 		 Very limited Cutbanks cave	1.00	 Somewhat limited Droughty	0.49	
426C: Emmert	 Somewhat limited Slope 	 0.04 	Very limited Cutbanks cave Slope	 1.00 0.04	 Very limited Droughty Slope Content of large stones	 	
Mahtomedi	 Somewhat limited Slope 	0.04	Very limited Cutbanks cave Slope	1.00	 Very limited Droughty Slope	1.00	
Menahga	 Somewhat limited Slope 	 0.04 	Very limited Cutbanks cave Slope	 1.00 0.04	 Somewhat limited Droughty Slope 	 0.49 0.04	
426D: Emmert	 Very limited Slope 	 1.00 	Very limited Cutbanks cave Slope	 1.00 1.00 	 Very limited Droughty Slope Content of large stones	 1.00 1.00 0.01	
Mahtomedi	 Very limited Slope 	1.00	Very limited Cutbanks cave Slope	1.00	 Very limited Slope Droughty	1.00	
Menahga	 Very limited Slope 	1.00	Very limited Cutbanks cave Slope	 1.00 1.00	 Very limited Slope Droughty	1.00	
430A: Freya	 Very limited Depth to saturated zone	 1.00 	Very limited Depth to saturated zone Too clayey Cutbanks cave	 1.00 1.00 1.00	 Very limited Depth to saturated zone Droughty	1.00	

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads and		 Shallow excavati 	ons	Lawns and landscaping	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>
439B: Graycalm	 Not limited 		 Very limited Cutbanks cave	1.00	 Somewhat limited Droughty	 0.29
Menahga	 Not limited 		 Very limited Cutbanks cave	1.00	 Somewhat limited Droughty	0.49
439C:	 		 		l I	
Graycalm	 Somewhat limited Slope 	0.04	 Very limited Cutbanks cave Slope	 1.00 0.04		0.29
Menahga	 Somewhat limited Slope 	0.04	 Very limited Cutbanks cave Slope	 1.00 0.04	 Somewhat limited Droughty Slope	 0.49 0.04
439D: Graycalm	 Very limited Slope	 1.00	 Very limited Cutbanks cave	 1.00	 Very limited Slope	 1.00
	 		Slope	1.00	Droughty	0.29
Menahga	Very limited Slope 	 1.00 	Very limited Cutbanks cave Slope 	 1.00 1.00	Very limited Slope Droughty	 1.00 0.49
442C:						
Haugen	Somewhat limited Frost action Depth to saturated zone	 0.50 0.19 	Very limited Depth to saturated zone Cutbanks cave	 1.00 1.00	Somewhat limited Depth to saturated zone Content of large stones	 0.19 0.03
Greenwood	 Very limited Depth to saturated zone	1.00	 Very limited Depth to saturated zone	1.00	 Very limited Depth to saturated zone	1.00
	Frost action Ponding	1.00 1.00 	Content of organic matter Ponding Cutbanks cave	1.00 1.00 0.10	Ponding	1.00
443D:	 		 			
Amery	Very limited	1	Very limited	İ	Very limited	
	Slope Frost action 	1.00 0.50	Slope Cutbanks cave 	1.00 1.00	-	1.00
Greenwood	 Very limited Depth to	 1.00	 Very limited Depth to	 1.00	 Very limited Depth to	 1.00
	saturated zone Frost action Ponding	 1.00 1.00	•	 1.00 1.00	saturated zone Ponding	1.00
	 		Cutbanks cave	0.10	 	

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads and streets		Shallow excavati	ons	Lawns and landsca 	Lawns and landscaping	
	Rating class and	Value	Rating class and	Value	Rating class and	Value	
	limiting features	<u> </u>	limiting features	<u>i</u>	limiting features	<u>i</u>	
459A:	l			l I	l		
Loxley	 Verv limited		 Very limited		 Very limited	i	
2011207	Depth to	1.00	Depth to	1.00	Content of	1.00	
	saturated zone		saturated zone		organic matter		
	Subsidence	1.00	Content of	1.00	Depth to	1.00	
	Ponding	1.00	organic matter	i	saturated zone	i	
	Frost action	1.00	Ponding	1.00	Ponding	1.00	
		İ	Cutbanks cave	0.10		Ì	
Daisybay	 Very limited		 Very limited		 Very limited		
	Depth to	1.00	Depth to	1.00	Depth to	1.00	
	saturated zone		saturated zone		saturated zone		
	Frost action	1.00	Ponding	1.00	Ponding	1.00	
	Ponding	1.00	Content of	1.00			
			organic matter				
		!	Cutbanks cave	0.10		!	
			Too clayey	0.03			
Dawson							
Dawson	Depth to	1.00	Very limited Depth to	1.00	Very limited Depth to	1.00	
	saturated zone	1	saturated zone	1	saturated zone	1	
	Subsidence	1.00		1.00	Ponding	1.00	
	Frost action	1.00		1.00	Ionaing		
	Ponding	1.00		1.00	 	i	
		į	organic matter	į		į	
461A:	 				 		
Bowstring	Very limited	İ	Very limited	ĺ	Very limited	İ	
	Depth to	1.00	Depth to	1.00	Flooding	1.00	
	saturated zone		saturated zone		Content of	1.00	
	Subsidence	1.00	Cutbanks cave	1.00	organic matter		
	Frost action	1.00		1.00	Depth to	1.00	
	Flooding	1.00		1.00	saturated zone		
	Ponding 	1.00	organic matter Flooding	0.80	Ponding 	1.00	
		į					
465A:			 				
Newson	Depth to	1.00	Very limited Depth to	1.00	Very limited Depth to	1.00	
	saturated zone	1	saturated zone	1	saturated zone	1	
	Ponding	1.00	Cutbanks cave	1.00	Ponding	1.00	
	Frost action	0.50	Ponding	1.00			
Meehan	 Very limited		 Very limited		 Very limited		
	Depth to	1.00	Depth to	1.00	Depth to	1.00	
	saturated zone	İ	saturated zone	İ	saturated zone	İ	
			Cutbanks cave	1.00	Droughty	0.94	
	 				Too sandy	0.50	
469E:							
Bigisland	: -		Very limited		Very limited	1	
	Slope	1.00	Slope	1.00	Slope	1.00	
	Content of large	0.61	Cutbanks cave	1.00	Content of large	1.00	
	stones	1	_	0.61	stones		
	 	I	stones	 0 E0	Droughty Gravel content	0.99	
	I	I	Dense layer	0.50	Gravel content	0.65	

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads and streets		Shallow excavati 	Shallow excavations		Lawns and landscaping 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
469E: Milaca	 Very limited Slope Frost action Depth to saturated zone	 1.00 0.50 0.19	-	 1.00 1.00 0.50 0.10	Very limited Slope Depth to saturated zone	 1.00 0.19 	
471B: Dairyland			saturated zone	1.00 1.00	 Somewhat limited Droughty Depth to saturated zone	 0.32 0.19 	
Emmert	Not limited 	 	 Very limited Cutbanks cave 	 1.00 	 Very limited Droughty Gravel content Content of large stones	 1.00 0.10 0.01	
471C: Dairyland	Somewhat limited Content of large stones Slope Depth to saturated zone		saturated zone Cutbanks cave	1.00 1.00	Droughty	 0.37 0.32 0.19 	
Emmert	 Somewhat limited Slope 	 0.37 	 Very limited Cutbanks cave Slope 	 1.00 0.37 		 1.00 0.37 0.01	
472A: Rockmarsh	Very limited Depth to saturated zone Flooding Content of large stones Frost action	1.00 1.00	Very limited Depth to saturated zone Cutbanks cave Content of large stones Flooding Dense layer	1.00 1.00	 Very limited Flooding Depth to saturated zone Content of large stones Droughty	 1.00 1.00 1.00 0.01	
Clemens	Depth to saturated zone Flooding Frost action	 1.00 1.00 0.50 0.23	Very limited Depth to saturated zone Cutbanks cave Flooding Content of large stones	1.00 1.00 0.80	Very limited Flooding Depth to saturated zone	 1.00 1.00 	

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads and streets		 Shallow excavati 	ons	Lawns and landscaping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
473A: Dairyland	 Somewhat limited Content of large stones Depth to saturated zone	1	saturated zone Cutbanks cave Content of large stones	1.00 1.00	Depth to	 0.32 0.19
Skog	 Somewhat limited Flooding 	 0.40 	 Very limited Cutbanks cave Depth to saturated zone	 1.00 0.99 	 Somewhat limited Droughty 	 0.96
484A: Greenwood	 Very limited Depth to saturated zone Frost action Ponding	 1.00 1.00 1.00	saturated zone Content of	 1.00 1.00 1.00 0.10	 Very limited Depth to saturated zone Ponding 	 1.00 1.00
Beseman	Very limited Depth to saturated zone Frost action Subsidence Ponding	 1.00 1.00 1.00 1.00	saturated zone Ponding Content of	 1.00 1.00 1.00 0.10	organic matter Depth to	 1.00 1.00 1.00
485C: Lupton	 Very limited Depth to	 1.00	 Very limited Depth to	 1.00	 Very limited Content of	 1.00
	saturated zone Frost action	 1.00 	saturated zone	 1.00 0.10	organic matter Depth to saturated zone	1.00
Tawas	 Very limited Depth to saturated zone Frost action Ponding	 1.00 1.00 1.00	saturated zone Cutbanks cave	 1.00 1.00 1.00 1.00		 1.00 1.00 1.00
495B: Karlsborg	 Somewhat limited Depth to saturated zone Frost action	 0.75 0.50	saturated zone	 1.00 1.00	saturated zone	 0.75 0.26
Grettum	 		Cutbanks cave	1.00 	 Somewhat limited	0.20

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an	ıd	 Shallow excavati 	Shallow excavations		Lawns and landscaping 	
	Rating class and	Value	Rating class and	Value	Rating class and	Value	
	limiting features	1	limiting features	1	limiting features	1	
495B:			 		 	1	
Perida	Somewhat limited		 Very limited		Somewhat limited	i	
	Frost action	0.50	Cutbanks cave	1.00	Droughty	0.44	
		İ	Too clayey	1.00		j	
			Depth to	0.82			
			saturated zone				
4055						!	
495C:						1	
Karlsborg	Depth to	0.75	Very limited Depth to	1.00	Somewhat limited Depth to	0.75	
	saturated zone	0.75	saturated zone	1.00	saturated zone	0.75	
	Frost action	0.50	Too clayey	1.00	Droughty	0.26	
	Slope	0.04	Cutbanks cave	1.00	Slope	0.04	
		i	Slope	0.04		i	
		İ	<u> </u>	i		i	
Grettum	Somewhat limited	j	Very limited	į	Somewhat limited	į	
	Slope	0.04	Cutbanks cave	1.00	Droughty	0.61	
			Depth to	0.35	Slope	0.04	
			saturated zone				
			Slope	0.04		!	
Dani da					 Somewhat limited	1	
Perida	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Droughty	0.44	
	Slope	0.04	Too clayey	1.00	Slope	0.44	
	blope	0.04	Depth to	0.82	biope	0.01	
			saturated zone		! 	i	
		İ	Slope	0.04		i	
				İ	ĺ	İ	
495D:							
Karlsborg	· -		Very limited		Very limited		
	Slope	1.00	Depth to	1.00	Slope	1.00	
	Depth to saturated zone	0.75	saturated zone	1.00	Depth to saturated zone	0.75	
	Frost action	0.50	Too clayey Cutbanks cave	1.00	Droughty	0.26	
	Flost accion		Slope	1.00	Dioughty	0.20	
						i	
Grettum	Very limited	i	Very limited	İ	Very limited	i	
	Slope	1.00	Cutbanks cave	1.00	Slope	1.00	
			Slope	1.00	Droughty	0.61	
			Depth to	0.35			
			saturated zone			!	
Domi do	 Town limited		 Very limited		 Town limited	1	
Perida	Slope	1.00		1.00	Very limited Slope	1.00	
	Frost action	0.50	!	1.00		0.44	
			Too clayey	1.00			
		i	Depth to	0.82		i	
	j	j	saturated zone	į	İ	į	
	[[[1	
496B:						1	
Karlsborg			Very limited		Somewhat limited		
	Depth to	0.75		1.00	Depth to	0.75	
	saturated zone		saturated zone		saturated zone	10.00	
	Frost action	0.50	Too clayey Cutbanks cave	1.00 1.00	Droughty	0.26	
	1	1	CULDAIINS CAVE	1 - 0 0	I .	1	

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an streets	d	 Shallow excavati 	ons	Lawns and landsca	ping
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
496C: Karlsborg	 Somewhat limited Depth to saturated zone Frost action Slope	 0.75 0.50 0.04	 Very limited Depth to saturated zone Too clayey Cutbanks cave Slope	 1.00 1.00 1.00 0.04	saturated zone Droughty	 0.75 0.26 0.04
496D: Karlsborg	 Very limited Slope Depth to saturated zone Frost action	 1.00 0.75 0.50	 Very limited Depth to saturated zone Too clayey Cutbanks cave Slope	 1.00 1.00 1.00 1.00	Depth to saturated zone	 1.00 0.75 0.26
497A: Meenon	 Very limited Depth to saturated zone Frost action	 1.00 0.50	 Very limited Depth to saturated zone Too clayey Cutbanks cave	 1.00 1.00 1.00	 Very limited Depth to saturated zone Droughty	 1.00 0.41
521A: Dody	Very limited Depth to saturated zone Frost action Low strength Shrink-swell Ponding	 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Cutbanks cave Too clayey Ponding	 1.00 1.00 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00
523A: Nokasippi	 Very limited Depth to saturated zone Frost action Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Cutbanks cave Ponding Dense layer	 1.00 1.00 1.00 0.50	 Very limited Depth to saturated zone Ponding	 1.00 1.00
529B: Perida	 Somewhat limited Frost action 	 0.50 	 Very limited Cutbanks cave Too clayey Depth to saturated zone	 1.00 1.00 0.82		0.62
531A: Stengel	 Very limited Depth to saturated zone 	 1.00 	 Very limited Depth to saturated zone Cutbanks cave Too clayey	 1.00 1.00 1.00	 Very limited Depth to saturated zone Droughty	 1.00 1.00
542B: Haugen, very stony	 Somewhat limited Frost action Depth to saturated zone	 0.50 0.19 	 Very limited Depth to saturated zone Cutbanks cave	 1.00 1.00	Somewhat limited Depth to saturated zone Content of large stones	0.19

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an streets	.d	Shallow excavati 	ons	Lawns and landsca	ping
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
542B: Haugen	 Somewhat limited Frost action Depth to saturated zone	 0.50 0.19 	: -	 1.00 1.00		 0.19 0.03
542C: Haugen, very stony	 Somewhat limited Frost action Depth to saturated zone Slope	 0.50 0.19 0.04	Very limited Depth to saturated zone Cutbanks cave	 1.00 1.00 0.04	saturated zone	 0.19 0.04 0.03
Haugen	 Somewhat limited Frost action Depth to saturated zone Slope	 0.50 0.19 0.04	saturated zone Cutbanks cave	 1.00 1.00 0.04	saturated zone	 0.19 0.04 0.03
544F: Menahga	 Very limited Slope 	 1.00	 Very limited Slope Cutbanks cave	 1.00 1.00		 1.00 0.51
Mahtomedi	 Very limited Slope 	 1.00 	 Very limited Slope Cutbanks cave	 1.00 1.00	: -	 1.00 1.00
553B: Branstad	 Somewhat limited Frost action Depth to saturated zone	 0.50 0.19 	 Very limited Depth to saturated zone Cutbanks cave	 1.00 0.10	 Somewhat limited Depth to saturated zone 	 0.19
553C: Branstad	Somewhat limited Frost action Depth to saturated zone Slope	 0.50 0.19 0.04	 Very limited Depth to saturated zone Cutbanks cave Slope	 1.00 0.10 0.04	Somewhat limited Depth to saturated zone Slope	 0.19 0.04
553D: Branstad	 Very limited Slope Frost action Depth to saturated zone	 1.00 0.50 0.19	 Very limited Depth to saturated zone Slope Cutbanks cave	 1.00 1.00 0.10	 Very limited Slope Depth to saturated zone	 1.00 0.19
555A: Fordum	 Very limited Depth to saturated zone Frost action Flooding Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Cutbanks cave Ponding Flooding	 1.00 1.00 1.00 0.80	Very limited Flooding Depth to saturated zone Ponding	 1.00 1.00 1.00

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an	ıd	 Shallow excavati 	ons.	Lawns and landscaping		
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
557B: Shawano	 Not limited 	 	 Very limited Cutbanks cave	1.00	 Somewhat limited Droughty	0.46	
557C: Shawano	 Somewhat limited Slope 	0.04	 Very limited Cutbanks cave Slope	1.00	 Somewhat limited Droughty Slope	0.46	
557D: Shawano	 Very limited Slope 	1.00	 Very limited Cutbanks cave Slope	1.00	 Very limited Slope Droughty	 1.00 0.46	
586A: Chelmo	Very limited Depth to saturated zone Frost action Low strength Shrink-swell Ponding	 1.00 1.00 1.00 1.00	saturated zone Cutbanks cave Too clayey	 1.00 1.00 1.00 1.00	 Very limited Depth to saturated zone Ponding 	 1.00 1.00	
600A: Haplosaprists Psammaquents	į	 	 Not rated Not rated	 	 Not rated Not rated	 	
615B: Cress	 Not limited 	 	 Very limited Cutbanks cave	 1.00	 Somewhat limited Droughty	 0.13	
615C: Cress	 Somewhat limited Slope 	 0.04	 Very limited Cutbanks cave Slope	 1.00 0.04	 Somewhat limited Droughty Slope	0.13	
615D: Cress	 Very limited Slope 	 1.00	 Very limited Cutbanks cave Slope	 1.00 1.00	 Very limited Slope Droughty	 1.00 0.13	
620C: Lundeen	 Very limited Frost action Depth to hard bedrock Low strength	 1.00 0.46 0.22	Very limited Depth to hard bedrock Cutbanks cave	 1.00 0.10	 Somewhat limited Depth to bedrock 	 0.46 	
Haustrup	į	1.00	 Very limited Depth to hard bedrock Cutbanks cave	 1.00 0.10	 Very limited Depth to bedrock Droughty	 1.00 0.14	
Rock outcrop	 Not rated		 Not rated		 Not rated		

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an streets	d	 Shallow excavati 	ons	 Lawns and landsca 	ping
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
621A: Bjorkland	Very limited Depth to saturated zone Ponding Frost action	 1.00 1.00 0.50	saturated zone Cutbanks cave	 1.00 1.00 1.00	saturated zone Ponding	 1.00 1.00
623A: Capitola	 Very limited Depth to saturated zone Frost action Ponding	 1.00 1.00 1.00	saturated zone	 1.00 1.00 0.50 0.10	saturated zone Ponding	 1.00 1.00
624A: Ossmer	 Very limited Depth to saturated zone Frost action	 1.00 0.50	saturated zone	 1.00 1.00	 Very limited Depth to saturated zone	 1.00
631A: Giese	 Very limited Depth to saturated zone Frost action Ponding	 1.00 1.00 1.00	saturated zone Ponding	 1.00 1.00 0.10	saturated zone Ponding	 1.00 1.00
632A: Aftad	 Somewhat limited Frost action Depth to saturated zone	 0.50 0.19 	Very limited Depth to saturated zone Cutbanks cave	 1.00 1.00	 Somewhat limited Depth to saturated zone	 0.19
632B: Aftad	 Somewhat limited Frost action Depth to saturated zone	 0.50 0.19 	Very limited Depth to saturated zone Cutbanks cave	 1.00 1.00	saturated zone	 0.19
632C: Aftad		 0.50 0.19 0.04	Very limited Depth to saturated zone Cutbanks cave Slope	 1.00 1.00 0.04	Somewhat limited Depth to saturated zone Slope	 0.19 0.04
634C: Drylanding	Very limited Depth to hard bedrock Frost action Content of large stones	1.00 1.00	Very limited Depth to hard bedrock Content of large stones Cutbanks cave	1.00	 Very limited Depth to bedrock Droughty Content of large stones	1.00

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an streets	d	 Shallow excavati 	ons	 Lawns and landsca 	ping
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
634C:	 		 		 	
	 Very limited Depth to hard bedrock Depth to saturated zone	 1.00 1.00	 Very limited Depth to hard bedrock Depth to saturated zone	 1.00 1.00	Depth to	 1.00 1.00
	Frost action Content of large stones Ponding	1.00 1.00 1.00	Content of large stones Ponding Cutbanks cave	1.00 1.00 0.10	Droughty	0.95
Rock outcrop	 Not rated 	 	 Not rated 	 	 Not rated 	
635C:	į	į		į	į	į
Drylanding	Very limited Depth to hard bedrock	1.00	Very limited Depth to hard bedrock	1.00	Very limited Depth to bedrock Droughty	 1.00 1.00
	Frost action Flooding Content of large	1.00	Content of large stones Cutbanks cave	0.39	Content of large stones	1.00
	stones		Cutbanks cave		 	
Beartree	 Very limited Depth to hard	1.00	 Very limited Depth to hard	1.00	 Very limited Depth to bedrock	1
	bedrock Depth to saturated zone	1.00	bedrock Depth to saturated zone	 1.00 	Depth to saturated zone Ponding	1.00 1.00
	Frost action Content of large stones	1.00	Content of large stones Ponding	1.00	Droughty	0.95
	Ponding	1.00	!	0.10	 	
Rock outcrop	 Not rated 	 	 Not rated 	 	 Not rated 	<u> </u>
648B:	į	į	İ	į		į
Sconsin	Somewhat limited Depth to saturated zone	 0.75 	Very limited Depth to saturated zone	 1.00 	Somewhat limited Depth to saturated zone	0.75
	Frost action	0.50	Cutbanks cave	1.00	 	
669D:	 		 		 	
Fremstadt, stony	Very limited Slope 	1.00	Very limited Slope Cutbanks cave	 1.00 1.00	Very limited Slope Droughty	1.00
Pomroy	Slope	1.00		1.00	Very limited Slope	1.00
	Frost action Depth to saturated zone 	0.50 0.19 	Depth to saturated zone Cutbanks cave Dense layer	1.00 1.00 0.50	Depth to saturated zone 	0.19
671B: Spoonerhill, stony	 Somewhat limited	j I	 Very limited	į į	 Somewhat limited	İ İ
	Depth to saturated zone	0.19 	Depth to saturated zone Cutbanks cave Dense layer	1.00 1.00 0.50	Droughty Depth to saturated zone Content of large	0.42
					stones	

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an streets	d	Shallow excavati 	ons	 Lawns and landsca 	ping
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>
671B:				1	 	
Spoonerhill	Somewhat limited	i	 Very limited	i	Somewhat limited	i
-	Depth to	0.19	Depth to	1.00	Droughty	0.42
	saturated zone		saturated zone		Depth to	0.19
			Cutbanks cave	1.00	saturated zone	
	 		Dense layer	0.50	Content of large stones	0.01
706A:						ļ
Winterfield		:	Very limited	:	Very limited	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Flooding Depth to	1.00
	Flooding	1.00	Cutbanks cave	1.00	saturated zone	1
	Flooding		Flooding	0.80	Droughty	0.10
	j	į		į		i
Totagatic	Very limited		Very limited		Very limited	
	Depth to	1.00	Depth to	1.00	Flooding	1.00
	saturated zone		saturated zone		Depth to	1.00
	Flooding	1.00	Cutbanks cave	1.00	saturated zone	
	Ponding Frost action	1.00	Ponding	1.00	Ponding Droughty	1.00
	Frost action	0.50	Flooding 	0.80	Droughty	0.37
715A:		İ		İ		i
Mora	Very limited	İ	Very limited	ĺ	Very limited	İ
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Frost action	1.00	Dense layer	0.50		ļ
			Cutbanks cave	0.10	 	
717B:				1	 	l
Milaca	Somewhat limited	İ	 Very limited	İ	Somewhat limited	i
	Frost action	0.50	Depth to	1.00	Depth to	0.19
	Depth to	0.19	saturated zone		saturated zone	
	saturated zone		Dense layer	0.50		
			Cutbanks cave	0.10		
717C:					 	
Milaca	Somewhat limited	İ	 Very limited	İ	 Somewhat limited	i
	Frost action	0.50	Depth to	1.00	Depth to	0.19
	Depth to	0.19	saturated zone		saturated zone	
	saturated zone		Dense layer	0.50	Slope	0.04
	Slope	0.04	Cutbanks cave	0.10		ļ
	 		Slope	0.04	 	l
720F:					 	i
Haustrup	Very limited	İ	Very limited	ĺ	Very limited	İ
	Depth to hard	1.00		1.00	Depth to bedrock	1.00
	bedrock		bedrock		Slope	1.00
	Slope	1.00	Slope	1.00	Droughty	0.14
	Frost action	0.50	Cutbanks cave	0.10	 	l
Lundeen	 Very limited		 Very limited		 Very limited	
	Frost action	1.00	Depth to hard	1.00	Slope	1.00
	Slope	1.00	bedrock		Depth to bedrock	0.46
	Depth to hard	0.46	Slope	1.00		
	bedrock	ļ	Cutbanks cave	0.10	!	ļ
	Low strength	0.22				ļ
	1	1	I	İ	I .	1
Rock outcrop	Not rated		Not rated	i	 Not rated	i

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an streets	ıd	 Shallow excavati 	ons	 Lawns and landsca 	aping
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
726B: Sissabagama	 Not limited 		 Very limited Cutbanks cave Depth to saturated zone	 1.00 0.99	 Somewhat limited Droughty 	 0.42
742B: Milaca	 Somewhat limited Frost action Depth to saturated zone	 0.50 0.19 	Very limited Depth to saturated zone Dense layer Cutbanks cave	 1.00 0.50 0.10	 Somewhat limited Depth to saturated zone	 0.19
742C: Milaca	 Somewhat limited Frost action Depth to saturated zone Slope	 0.50 0.19 0.04	Very limited Depth to saturated zone Dense layer Cutbanks cave Slope	 1.00 0.50 0.10 0.04	 Somewhat limited Depth to saturated zone Slope 	 0.19 0.04
742D: Milaca	 Very limited Slope Frost action Depth to saturated zone	 1.00 0.50 0.19	 Very limited Depth to saturated zone Slope Dense layer Cutbanks cave	 1.00 1.00 0.50 0.10	 Very limited Slope Depth to saturated zone	 1.00 0.19
755A: Moppet	 Very limited Flooding Frost action 	 1.00 0.50	 Very limited Cutbanks cave Depth to saturated zone Flooding	 1.00 0.99 0.60	 Somewhat limited Flooding 	 0.60
Fordum	Very limited Depth to saturated zone Frost action Flooding Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Cutbanks cave Ponding Flooding	 1.00 1.00 1.00 0.80		 1.00 1.00 1.00
771A: Lenroot	 Somewhat limited Depth to saturated zone 	 0.19 	 Very limited Depth to saturated zone Cutbanks cave	 1.00 1.00	 Somewhat limited Droughty Depth to saturated zone	 0.99 0.19
812B: Mora	 Very limited Depth to saturated zone Frost action	 1.00 1.00	 Very limited Depth to saturated zone Dense layer Cutbanks cave	 1.00 0.50 0.10	 Very limited Depth to saturated zone 	 1.00

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an streets	d	Shallow excavati 	ons	Lawns and landsca	ping
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	1	limiting features	1	limiting features	1
825A: Meehan	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone Cutbanks cave	 1.00 1.00	 Very limited Depth to saturated zone Droughty Too sandy	 1.00 0.94 0.50
896A: Wurtsmith	 Somewhat limited Depth to saturated zone 	 0.19 	 Very limited Depth to saturated zone Cutbanks cave 	 1.00 1.00	 Somewhat limited Droughty Too sandy Depth to saturated zone	 0.94 0.50 0.19
980A: Soderbeck	Very limited Depth to saturated zone Frost action Content of large stones Flooding	 1.00 0.50 0.45 0.40	Very limited Depth to saturated zone Cutbanks cave Content of large stones Depth to hard bedrock	1.00	Very limited Depth to saturated zone Content of large stones Gravel content Droughty	 1.00 0.99 0.97 0.61
1070C: Fremstadt	Somewhat limited Slope	 0.16 	 Very limited Cutbanks cave Slope	 1.00 0.16	 Somewhat limited Slope Droughty	 0.16 0.01
Cress	 Somewhat limited Slope 	 0.04 	 Very limited Cutbanks cave Slope	 1.00 0.04	 Somewhat limited Droughty Slope	 0.13 0.04
1070D:	 		 		 	
Fremstadt	 Very limited Slope	 1.00 	 Very limited Slope Cutbanks cave	1.00	 Very limited Slope Droughty	 1.00 0.01
Cress	 Very limited Slope 	 1.00 	 Very limited Cutbanks cave Slope	 1.00 1.00	 Very limited Slope Droughty	 1.00 0.13
1080B: Spoonerhill	 Somewhat limited Depth to saturated zone	 0.19 	 Very limited Depth to saturated zone Cutbanks cave Dense layer	 1.00 1.00 0.50	 Somewhat limited Droughty Depth to saturated zone Content of large stones	 0.42 0.19 0.01
Spoonerhill, stony	 Somewhat limited Depth to saturated zone 	 0.19 	 Very limited Depth to saturated zone Cutbanks cave Dense layer	 1.00 1.00 0.50	Somewhat limited Droughty Depth to saturated zone Content of large stones	 0.42 0.19 0.05
Cress	 Not limited 	 	 Very limited Cutbanks cave	 1.00	 Somewhat limited Droughty 	 0.13

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an	d	 Shallow excavati 	ons	 Lawns and landsca 	ping
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
2002: Udorthents, earthen dams	 Not rated	 	 Not rated	 	 Not rated	
2015: Pits	 Not rated 		 Not rated 		 Not rated 	
2050: Landfill	 Not rated		 Not rated		 Not rated	
3011A: Barronett	 Very limited Depth to saturated zone Frost action Low strength Ponding Shrink-swell	 1.00 1.00 1.00 1.00	saturated zone Cutbanks cave	 1.00 1.00 1.00	saturated zone Ponding	 1.00 1.00
3082E: Braham	 Very limited Slope 	 1.00	 Very limited Cutbanks cave Slope	 1.00 1.00	-	1.00
Shawano	 Very limited Slope 	 1.00	 Very limited Cutbanks cave Slope	 1.00 1.00	: -	 1.00 0.46
3114A: Saprists	 Not rated 	 	 Very limited Ponding Depth to saturated zone Content of organic matter Cutbanks cave	 1.00 1.00 1.00 0.10	Content of organic matter Depth to saturated zone	 1.00 1.00 1.00
Aquents	 Not rated 	 	 Very limited Ponding Depth to saturated zone Cutbanks cave	 1.00 1.00 1.00	Depth to saturated zone	 1.00 1.00
Aquepts	 Not rated 	 	Very limited	 1.00 1.00 1.00		 1.00 1.00
3125A: Meehan	 Very limited Depth to saturated zone 	 1.00 	 Very limited Depth to saturated zone Cutbanks cave	 1.00 1.00	saturated zone	 1.00 0.88
3126A: Wurtsmith	 Somewhat limited Depth to saturated zone 	 0.19 	 Very limited Depth to saturated zone Cutbanks cave	 1.00 1.00	Depth to	 0.83 0.19

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an streets	đ	Shallow excavati	ons	Lawns and landsca	aping		
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value		
3312B: Glendenning, very	 		 	 	 	 		
stony	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00		
	Frost action	0.50	Cutbanks cave	0.10	Content of large stones	0.03		
Glendenning	Depth to	1.00	 Very limited Depth to	1.00	 Very limited Depth to	1.00		
	saturated zone Frost action	0.50	saturated zone Cutbanks cave	0.10	saturated zone Content of large stones	0.01		
3336A:								
Fenander	Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00		
	Frost action Ponding	1.00	Cutbanks cave Ponding	1.00	Ponding	1.00		
3403A:	 		 		 			
Loxley	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Content of organic matter	 1.00		
	Subsidence Ponding	1.00	Content of organic matter	1.00	Depth to saturated zone	1.00		
	Frost action	1.00	Ponding Cutbanks cave	1.00	Ponding	1.00		
Beseman	 Very limited Depth to	1.00	 Very limited Depth to	1.00	 Very limited Content of	1.00		
	saturated zone Frost action Subsidence	 1.00 1.00	saturated zone Ponding Content of	 1.00 1.00	organic matter Depth to saturated zone	1.00		
	Ponding	1.00	organic matter Cutbanks cave	0.10	Ponding	1.00		
Dawson	 Very limited Depth to	 1.00	 Very limited Depth to	 1.00	 Very limited Depth to	1.00		
	saturated zone Subsidence	1.00	saturated zone Cutbanks cave	1.00	saturated zone Ponding	1.00		
	Frost action Ponding 	1.00 1.00 	Ponding Content of organic matter	1.00 1.00 	 	 		
3429B:	 		 		 			
Lara	Depth to	0.75	Very limited Depth to	1.00	Somewhat limited Depth to	0.75		
	saturated zone	 	saturated zone Too clayey Cutbanks cave	 1.00 1.00	saturated zone Droughty	 0.27 		
3429C:								
Lara	Depth to	0.75	: -	1.00	: -	0.75		
	saturated zone Slope	0.04	saturated zone Too clayey Cutbanks cave	 1.00 1.00		 0.27 0.04		
	 -	į į	Slope	0.04	:			

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an streets	d	Shallow excavati 	ons	Lawns and landsca	ping
	Rating class and limiting features	Value	Rating class and limiting features	1	Rating class and limiting features	Value
3446A: Newson	Very limited Depth to saturated zone Ponding Frost action	 1.00 1.00 0.50	saturated zone Cutbanks cave	 1.00 1.00	saturated zone Ponding	 1.00 1.00
3448B: Grettum	 Not limited 	 	Very limited Cutbanks cave Depth to saturated zone	 1.00 0.35		0.61
3448C: Grettum	 Somewhat limited Slope 	 0.04 	 Very limited Cutbanks cave Depth to saturated zone Slope	 1.00 0.35 0.04	Slope	0.61
3510B: Pomroy	 Somewhat limited Frost action Depth to saturated zone	 0.50 0.19 	 Very limited Depth to saturated zone Cutbanks cave Dense layer	 1.00 1.00 0.50	saturated zone	0.19
Fremstadt	 Not limited 		 Very limited Cutbanks cave	1.00	 Somewhat limited Droughty	0.01
Fremstadt, stony	 Not limited 		 Very limited Cutbanks cave 	 1.00	 Somewhat limited Droughty 	0.01
3510C: Pomroy	 Somewhat limited Frost action Depth to saturated zone Slope	 0.50 0.19 0.16	saturated zone Cutbanks cave	 1.00 1.00 0.50 0.16	saturated zone Slope	 0.19 0.16
Fremstadt	 Somewhat limited Slope 	 0.16	 Very limited Cutbanks cave Slope	 1.00 0.16		 0.16 0.01
Fremstadt, stony	 Somewhat limited Slope 	 0.16	 Very limited Cutbanks cave Slope	 1.00 0.16	: -	 0.16 0.01
3511A: Bushville	Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone Cutbanks cave Dense layer	 1.00 1.00 0.50	 Very limited Depth to saturated zone	 1.00
3516A: Slimlake	 Not limited - 	 	 Very limited Cutbanks cave Depth to saturated zone	 1.00 0.99 	 Somewhat limited Droughty 	 0.21

Table 17b.--Building Site Development--Continued

Map symbol and soil name	Local roads an streets	đ	Shallow excavati 	ons	Lawns and landsca	caping	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
3625A: Lino	 Very limited	 	 Very limited	 	 Very limited	 	
	Depth to saturated zone 	1.00 	Depth to saturated zone Cutbanks cave	1.00 1.00	saturated zone	1.00 0.19	
3626A:	 	<u> </u> 					
Crex	Somewhat limited Depth to saturated zone 	 0.19 	Very limited Depth to saturated zone Cutbanks cave	 1.00 1.00	Somewhat limited Droughty Depth to saturated zone	 0.23 0.19 	
3629B: Perida	 Somewhat limited Frost action 	 0.50 	 Very limited Cutbanks cave Too clayey Depth to saturated zone	 1.00 1.00 0.82	 Somewhat limited Droughty 	 0.44 	
3636B: Plainbo	 Not limited 		 Very limited Cutbanks cave Depth to soft bedrock	 1.00 0.46	 Very limited Droughty Too sandy Depth to bedrock	 1.00 0.50 0.46	
3636C: Plainbo	 Somewhat limited Slope 	 0.04 	 Very limited Cutbanks cave Depth to soft bedrock Slope	 1.00 0.46 0.04		 1.00 0.50 0.46 0.04	
M-W: Miscellaneous water	 Not rated		 Not rated		 Not rated		
W: Water	 Not rated		 Not rated		 Not rated		

Table 18a.--Sanitary Facilities

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

Map symbol and soil name	Septic tank absorption fiel	ds	Sewage lagoons	1
and soll name	absorption fiel	uв	 	
	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	<u> </u>
3A:	 		l I	
Totagatic	 Very limited	1	 Very limited	1
Totagatic	Flooding	1.00	Flooding	1.00
	Depth to	1.00	Seepage	1.00
	saturated zone		Depth to	1.00
	Filtering	1.00	saturated zone	
	capacity		Ponding	1.00
	Subsidence	1.00	Content of	1.00
	Seepage	1.00	organic matter	
Bowstring	Very limited		Very limited	
	Flooding	1.00	Flooding	1.00
	Depth to	1.00	Seepage	1.00
	saturated zone		Depth to	1.00
	Filtering	1.00	saturated zone	
	capacity		Ponding	1.00
	Subsidence	1.00	Content of	1.00
	Seepage	1.00	organic matter	
Ausable	 Very limited		 Very limited	
	Flooding	1.00	Flooding	1.00
	Depth to	1.00	Seepage	1.00
	saturated zone	İ	Depth to	1.00
	Filtering	1.00	saturated zone	
	capacity		Ponding	1.00
	Subsidence	1.00	Content of	1.00
	Seepage	1.00	organic matter	
12A:	 		 	
Makwa	 Very limited		 Very limited	i
	Flooding	1.00	Flooding	1.00
	Restricted	1.00	Depth to	1.00
	permeability	İ	saturated zone	İ
	Depth to	1.00	Seepage	1.00
	saturated zone	İ	Ponding	1.00
	Ponding	1.00	Content of	1.00
	Content of large	0.11	organic matter	
	stones		 	
22A:				
Comstock	Very limited		Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted	1.00	Seepage	0.53
	permeability	1	I	1

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	 Sewage lagoons 	•
	Rating class and limiting features	Value	Rating class and limiting features	Value
27A:]	
Scott Lake	 Very limited		 Very limited	
	Depth to	1.00	Seepage	1.00
	saturated zone		Depth to	1.00
	Filtering capacity	1.00	saturated zone	
	Seepage	1.00	 	
	Restricted	0.46		İ
	permeability	į		į
28B:			l	
Haugen, very stony	 Very limited		 Somewhat limited	
	Depth to	1.00	Depth to	0.75
	saturated zone		saturated zone	
	Restricted	1.00	Seepage	0.53
	permeability		Slope	0.32
Haugen	 Very limited		Somewhat limited	
	Depth to	1.00	Depth to	0.75
	saturated zone		saturated zone	
	Restricted	1.00	Seepage	0.53
	permeability		Slope 	0.32
Rosholt, very stony	Very limited	j	 Very limited	j
	Filtering	1.00	Seepage	1.00
	capacity		Slope	0.32
	Seepage Restricted	1.00 0.46	 	l I
	permeability			
Rosholt	 Very limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Slope	0.32
	Seepage	1.00		
	Restricted permeability	0.46		
000			 	
28C: Haugen, very stony	 Very limited		 Very limited	
	Depth to	1.00	Slope	1.00
	saturated zone		Depth to	0.75
	Restricted	1.00	saturated zone	0.53
	permeability Slope	0.04	Seepage 	0.53
**	 			
Haugen	Very limited Depth to	1.00	Very limited Slope	1.00
	saturated zone		Depth to	0.75
	Restricted	1.00	saturated zone	İ
	permeability		Seepage	0.53
	Slope	0.04	 	
Rosholt, very stony	 Very limited		 Very limited	
- •	Filtering	1.00	Seepage	1.00
	capacity		Slope	1.00
	Seepage	1.00	l	
	Restricted	0.46	 	
	permeability Slope	0.04	[
	i sa sa sa sa sa sa sa sa sa sa sa sa sa		 	1

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	 Septic tank absorption fiel 	ds	 Sewage lagoons 	
	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	<u> </u>
28C:			 	
Rosholt	 Verv limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity	İ	Slope	1.00
	Seepage	1.00	[1
	Restricted	0.46		
	permeability Slope	0.04	 	
	blobe		 	1
38A:	İ	i		i
Rosholt	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity Seepage	1.00	 	
	Restricted	0.46	 	1
	permeability		<u> </u>	i
	į	İ	İ	İ
38B:				1
Rosholt	Very limited Filtering	1.00	Very limited Seepage	1.00
	capacity	1	Slope	0.32
	Seepage	1.00		
	Restricted	0.46	İ	İ
	permeability			1
38C:	 		 	
Rosholt	 Very limited		 Very limited	1
	Filtering	1.00	Seepage	1.00
	capacity		Slope	1.00
	Seepage	1.00		
	Restricted	0.46	 	
	permeability Slope	0.04	 	
				i
38D:	İ	İ	İ	İ
Rosholt			Very limited	
	Filtering	1.00	Slope	1.00
	capacity Seepage	1.00	Seepage 	1
	Slope	1.00		i
	Restricted	0.46	İ	İ
	permeability			
42D:	 		 -	
Amery	 Verv limited		 Very limited	1
2	Restricted	1.00	: -	1.00
	permeability	İ	Seepage	0.53
	Slope	1.00		!
43B:	 		 	
Antigo	 Very limited	1	 Very limited	
. .	Filtering	1.00	Seepage	1.00
	capacity		Slope	0.32
	Seepage	1.00		
	Restricted	0.46	 	
	permeability	1	 	
	I	1	I .	1

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	 Sewage lagoons 	:
	Rating class and limiting features	Value	Rating class and limiting features	Value
43C: Antigo	 Very limited Filtering capacity Seepage Restricted permeability Slope	 1.00 1.00 0.46 0.37	 Very limited Seepage Slope	 1.00 1.00
63A: Crystal Lake	 Very limited Depth to saturated zone Restricted permeability	 1.00 1.00	Very limited Depth to saturated zone Seepage	 1.00 0.53
63B: Crystal Lake	 Very limited Depth to saturated zone Restricted permeability	 1.00 1.00 	 Very limited Depth to saturated zone Seepage Slope	 1.00 0.53 0.32
63C: Crystal Lake	Very limited Depth to saturated zone Restricted permeability Slope	 1.00 1.00 0.04	Very limited Slope Depth to saturated zone Seepage	 1.00 0.99 0.53
64A: Totagatic Winterfield	Very limited Flooding Depth to saturated zone Filtering capacity Subsidence Seepage Very limited	 1.00 1.00 1.00 1.00 1.00	Very limited Flooding Seepage Depth to saturated zone Ponding Content of organic matter Very limited	 1.00 1.00 1.00 1.00 1.00
willetileid	Flooding Depth to saturated zone Filtering capacity Seepage	1.00 1.00 1.00 1.00	Flooding Seepage Depth to saturated zone	1.00 1.00 1.00 1.00
69C: Keweenaw	 Very limited Seepage Slope	 1.00 0.16	 Very limited Seepage Slope	1.00
Sayner	 Very limited Filtering capacity Seepage Slope	 1.00 1.00 0.16	Very limited Seepage Slope	 1.00 1.00

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	 Sewage lagoons 	3
	Rating class and	Value	Rating class and	Value
	limiting features	j	limiting features	İ
69C:	1			ļ
Vilas	Very limited		Very limited	11 00
	Filtering	1.00		1.00
	capacity Seepage	1.00	Slope	1.00
	Slope	0.16	 	i
				i
69E:				
Keweenaw	:		Very limited	
	Slope	1.00	-	1.00
	Seepage	1.00	Seepage	1.00
Sayner	 Very limited		 Very limited	
bayner	Filtering	1.00	Slope	1.00
	capacity		Seepage	1.00
	Slope	1.00		i
	Seepage	1.00		İ
		[
Vilas	Very limited		Very limited	
	Filtering	1.00	Slope	1.00
	capacity	1 00	Seepage	1.00
	Slope Seepage	1.00	 	
	beepage	1		1
82B:		İ		i
Cutaway	Very limited	į	Very limited	İ
	Depth to	1.00	Seepage	1.00
	saturated zone		Depth to	1.00
	Filtering	1.00	saturated zone	
	capacity		Slope	0.18
	Restricted permeability	0.72	 	
	permeability			1
Branstad	 Very limited	İ	 Very limited	i
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted	0.72	Seepage	0.53
	permeability		Slope	0.18
82C:				
Cutaway	 Very limited		 Very limited	İ
5454a _f	Depth to	1.00		1.00
	saturated zone		Depth to	1.00
	Filtering	1.00	saturated zone	İ
	capacity		Slope	1.00
	Restricted	0.72		
	permeability			
	Slope	0.04	 -	1
Branstad	 Very limited	I	 Very limited	
Dranstau	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted	0.72	Slope	1.00
	permeability	i	Seepage	0.53
	Slope	0.04		

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	 Sewage lagoons 	
	Rating class and limiting features	Value	Rating class and limiting features	Value
83A: Smestad	 Very limited Restricted	 1.00	 Very limited Seepage	 1.00
	permeability Depth to saturated zone Filtering capacity	 1.00 1.00	Depth to saturated zone 	1.00
85B: Taylor	 Very limited Restricted permeability Depth to saturated zone	 1.00 1.00	 Very limited Depth to saturated zone Slope 	 1.00 0.32
85C: Taylor	 Very limited		 Very limited	
	Restricted permeability Depth to saturated zone Slope	1.00 1.00 0.04	Depth to saturated zone Slope 	1.00 1.00
86A: Indus	 Very limited		 Very limited	
	Restricted permeability Depth to saturated zone	1.00 1.00	Depth to saturated zone Ponding	1.00 1.00
Alango	Ponding	1.00 1.00 1.00	 Very limited Depth to saturated zone	 1.00
89A: Wildwood	 Very limited Restricted permeability Depth to saturated zone Ponding	 1.00 1.00 	 Very limited Depth to saturated zone Ponding Content of organic matter	 1.00 1.00 1.00
96B: Karlsborg		 1.00 1.00 1.00 1.00	 Very limited Seepage Depth to saturated zone Slope	 1.00 0.99 0.32

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	Sewage lagoons	3
	Rating class and limiting features	Value	Rating class and limiting features	Value
		1		
96C:				
Karlsborg	Very limited Restricted	1.00	Very limited Seepage	1.00
	permeability	1.00	Slope	1.00
	Depth to	1.00	Depth to	0.99
	saturated zone	į	saturated zone	į
	Filtering	1.00		
	capacity			ļ
	Seepage	1.00	 	
	Slope	0.04	 	1
96D:	 	i	 	i
	 Very limited	i	 Very limited	i
	Restricted	1.00	Slope	1.00
	permeability		Seepage	1.00
	Depth to	1.00		0.99
	saturated zone	1 00	saturated zone	
	Filtering capacity	1.00	 	
	Seepage	1.00	 	i
	Slope	1.00		i
		İ		Ì
100B:				1
Menahga	_		Very limited	
	Filtering	1.00	Seepage Slope	1.00
	capacity Seepage	1.00	Slope	0.08
				i
100C:		į		İ
Menahga	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity	1.00	Slope	1.00
	Seepage Slope	0.04	 	i
				i
100D:		j		į
Menahga	Very limited		Very limited	
	Filtering	1.00	Slope	1.00
	capacity	1 00	Seepage	1.00
	Seepage Slope	1.00 1.00	 	
				i
120B:		j		į
Kost	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity	1 00	Slope	0.08
	Seepage	1.00	 	
127D:	 	i	 	i
Amery	Very limited	İ	Very limited	į
	Restricted	1.00	Slope	1.00
	permeability		Seepage	0.53
	Slope	1.00	 	1
Rosholt	 Very limited		 Very limited	I
	Filtering	1.00	Slope	1.00
	capacity	i	Seepage	1.00
	Seepage	1.00		
	Slope	1.00		
	Restricted permeability	0.46		

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	 Septic tank absorption fiel	ds	 Sewage lagoons 	1
	Rating class and	Value	Rating class and limiting features	Value
127E:	 		 	
Amery	 Very limited	i	 Very limited	İ
	Slope	1.00	Slope	1.00
	Restricted	1.00	Seepage	0.53
	permeability		 	l
Rosholt	 Very limited		 Very limited	
	Filtering	1.00	Slope	1.00
	capacity		Seepage	1.00
	Slope	1.00		
	Seepage Restricted	1.00	 	l I
	permeability			
		İ		İ
151A:				
Bluffton	Depth to	1.00	Very limited Depth to	1.00
	saturated zone		saturated zone	
	Ponding	1.00	Ponding	1.00
	Restricted	0.46	Seepage	0.53
	permeability		 	
152A:				
Alstad	 Very limited	j	 Very limited	į
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted permeability	0.72	Seepage	0.53
	permeability			
154E:		į		
Cushing	Very limited		Very limited	
	Slope Restricted	1.00	Slope	1.00
	permeability	1	Seepage 	0.55
156B:		İ		
Magnor, very stony	_		Very limited	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Restricted	1.00	Seepage	0.53
	permeability	j		j
Magnor		1.00	Very limited	1.00
	Depth to saturated zone	1	Depth to saturated zone	1
	Restricted	1.00	'	0.53
	permeability	İ		İ
157B:				
Freeon, very stony	 Verv limited		 Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone	İ	saturated zone	
	Restricted	1.00	Seepage	0.53
	permeability		Slope	0.32
Freeon	 Very limited		 Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted	1.00	Seepage	0.53
	permeability	1	Slope	0.32

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	 Septic tank absorption fiel	ds	 Sewage lagoons 	;
	Rating class and limiting features	Value	Rating class and limiting features	Value
157C: Freeon, very stony	 Very limited		 Very limited	
	Depth to saturated zone Restricted permeability Slope	1.00 1.00 0.04	Depth to saturated zone Slope Seepage 	1.00 1.00 0.53
Freeon	Very limited Depth to saturated zone Restricted permeability Slope	 1.00 1.00 0.04	Very limited Depth to saturated zone Slope Seepage	 1.00 1.00 0.53
160A: Oesterle	 Very limited Depth to saturated zone Filtering capacity Seepage	 1.00 1.00 1.00	 Very limited Seepage Depth to saturated zone	 1.00 1.00
165B: Elderon	Very limited Filtering capacity Seepage Content of large stones	1.00	 Very limited Seepage Content of large stones Slope	 1.00 0.34 0.32
185B: Tradelake Taylor	Restricted permeability	1.00 1.00 1.00 1.00	Very limited Seepage Depth to saturated zone Slope	 1.00 0.99 0.32
185C: Tradelake	Depth to saturated zone Very limited Restricted permeability Depth to saturated zone Filtering capacity Seepage Slope	1.00 1.00 1.00 1.00 0.04	Slope 	0.32 1.00 1.00 0.99

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	Sewage lagoons 	
	Rating class and limiting features	Value	Rating class and limiting features	Value
	IIMICING TEACUTES	1	IIMICING TEACUTES	<u> </u>
185C:				
Taylor	Very limited	İ	Very limited	İ
	Restricted	1.00	Depth to	1.00
	permeability		saturated zone	
	Depth to	1.00	Slope	1.00
	saturated zone	0.04	 	1
	Siope	0.04		
185D:		i		i
Tradelake	Very limited	İ	Very limited	İ
	Restricted	1.00	Slope	1.00
	permeability		Seepage	1.00
	Depth to	1.00	Depth to	0.75
	saturated zone		saturated zone	
	Filtering capacity	1.00	 	1
	Seepage	1.00		
	Slope	1.00		
	· -	İ		į
Taylor	Very limited		Very limited	
	Restricted	1.00	Slope	1.00
	permeability		Depth to	1.00
	Depth to saturated zone	1.00	saturated zone	
	Slope	1.00	 	
	blope			
185E:		i		İ
Tradelake	Very limited	İ	Very limited	İ
	Restricted	1.00	Slope	1.00
	permeability		Seepage	1.00
	Depth to	1.00	Depth to	0.75
	saturated zone Filtering	1.00	saturated zone	
	capacity	1		
	Slope	1.00		İ
	Seepage	1.00		j
Taylor	Very limited		Very limited	
	Restricted	1.00	Slope	1.00
	permeability Depth to	1.00	Depth to saturated zone	1.00
	saturated zone		Sacuraced Zone	
	Slope	1.00		İ
		İ		İ
189A:				
Siren	Very limited		Very limited	
	Depth to	1.00	-	1.00
	saturated zone Restricted	1.00	saturated zone Seepage	0.53
	permeability		beepage	
		i		İ
193A:		İ		İ
Minocqua			Very limited	
	Depth to	1.00	Seepage	1.00
	saturated zone	1 00	Depth to	1.00
	Filtering capacity	1.00	saturated zone Ponding	1.00
	Seepage	1.00	Content of	1.00
	Ponding	1.00	organic matter	
	Restricted	0.46		İ

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	absorption fiel	ds	Sewage lagoons	
	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	
		ļ		
337A:	 Vamus limited		 Warr limited	
Plover	Depth to	1.00	Very limited Depth to	1.00
	saturated zone		saturated zone	
	Restricted	1.00	Seepage	0.53
	permeability	İ		İ
2.600				
368B: Mahtomedi	 Verv limited		 Very limited	l
	Filtering	1.00	_	1.00
	capacity	i	Slope	0.32
	Seepage	1.00	·	İ
		ļ		
Cress	very limited Filtering	1.00	Very limited Seepage	1.00
	capacity	1	Slope	0.32
	Seepage	1.00	blope	
		i		i
368C:				
Mahtomedi			Very limited	
	Filtering	1.00		1.00
	capacity	1 00	Slope	1.00
	Seepage Slope	1.00	 	l
Cress	 Very limited	į	 Very limited	i
	Filtering	1.00	Seepage	1.00
	capacity		Slope	1.00
	Seepage	1.00		
	Slope	0.04	 	
368D:	 	i	 	
Mahtomedi	Very limited	į	Very limited	j
	Filtering	1.00	Slope	1.00
	capacity		Seepage	1.00
	Seepage	1.00		
	Slope	1.00	 	
Cress	 Very limited	i	 Very limited	
	Filtering	1.00	Slope	1.00
	capacity		Seepage	1.00
	Seepage	1.00		
	Slope	1.00	l I	
368E:	 	l	 	l I
Mahtomedi	 Very limited	i	 Very limited	i
	Filtering	1.00	Slope	1.00
	capacity		Seepage	1.00
	Slope	1.00		
	Seepage	1.00	 	
Cress	 Very limited		 Very limited	
	Filtering	1.00	Slope	1.00
	capacity	İ	Seepage	1.00
	Slope	1.00		
	Seepage	1.00		

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	Sewage lagoons 	
	Rating class and limiting features	Value	Rating class and limiting features	Value
2000				
380B: Cress	 Very limited		 Very limited	l
CICDD	Filtering	1.00	Seepage	1.00
	capacity	į	Slope	0.32
	Seepage	1.00	 	
Rosholt	 Very limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Slope	0.32
	Seepage	1.00	 	
	Restricted permeability	0.46	 	
380C:			 	
Cress	Very limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Slope	1.00
	Seepage	1.00		
	Slope	0.04	 	
Rosholt	Very limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Slope	1.00
	Seepage	1.00		
	Restricted	0.46		
	permeability Slope	0.04	 	
380D:			[]	
Cress	Very limited	İ	 Very limited	
	Filtering	1.00	Slope	1.00
	capacity		Seepage	1.00
	Seepage	1.00		
	Slope	1.00		
Rosholt		İ	 Very limited	İ
	Filtering	1.00	Slope	1.00
	capacity	1.00	Seepage	1.00
	Seepage Slope	1.00	 	l
	Restricted	0.46	 	
	permeability			
383B:			 	
Mahtomedi	Very limited	İ	 Very limited	i
	Filtering	1.00	Seepage	1.00
	capacity		Slope	0.08
	Seepage	1.00	 	
383C:		į		į
Mahtomedi		1 00	Very limited	1 00
	Filtering capacity	1.00	Seepage Slope	1.00
	Seepage	1.00		
	Slope	0.04		i

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	Sewage lagoons 	
	Rating class and limiting features	Value	Rating class and limiting features	Value
383D: Mahtomedi	 Very limited Filtering capacity Seepage Slope	 1.00 1.00 1.00	 Very limited Slope Seepage	 1.00 1.00
392C: Rockmarsh	 Very limited Depth to saturated zone Content of large stones Slope	1.00	saturated zone	 1.00 1.00 1.00 1.00 1.00
Dairyland	Very limited Depth to saturated zone Filtering capacity Content of large stones Slope	1.00 1.00	Slope Content of large stones	 1.00 1.00 1.00 0.75
Makwa		1.00 1.00	Very limited Depth to saturated zone Seepage Slope Content of organic matter Content of large stones	 1.00 1.00 1.00 1.00 0.83
396B: Friendship	 Very limited Filtering capacity Seepage Depth to saturated zone	 1.00 1.00 0.84	 Very limited Seepage Depth to saturated zone	 1.00 0.17
Wurtsmith	Very limited Depth to saturated zone Filtering capacity Seepage	 1.00 1.00 1.00	 Very limited Seepage Depth to saturated zone	 1.00 1.00
Grayling	 Very limited Filtering capacity Seepage	 1.00 1.00	 Very limited Seepage Slope 	 1.00 0.08

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	Sewage lagoons 		
	Rating class and	Value	Rating class and limiting features	Value	
397A:				 	
Perchlake	 Very limited	į	 Very limited	į	
	Depth to	1.00	Seepage	1.00	
	saturated zone		Depth to	1.00	
	Filtering capacity	1.00	saturated zone		
	Seepage	1.00			
399B:	 		 	 	
	 Very limited		 Very limited		
	Filtering	1.00	Seepage	1.00	
	capacity	[Slope	0.08	
	Seepage	1.00	 		
399C:					
Grayling	Very limited		Very limited		
	Filtering	1.00	Seepage Slope	1.00	
	capacity Seepage	1.00	Slope	1.00	
	Slope	0.04		İ	
399D:	 		 		
Grayling	 Very limited	İ	 Very limited		
	Filtering	1.00	Slope	1.00	
	capacity	[Seepage	1.00	
	Seepage Slope	1.00	 		
	blope				
406A:	 		 		
Loxley	Very limited Depth to	1.00	Very limited Content of	1.00	
	saturated zone		organic matter		
	Filtering	1.00	Seepage	1.00	
	capacity		Depth to	1.00	
	Subsidence	1.00	saturated zone		
	Seepage Ponding	1.00	Ponding 	1.00	
		į		į	
407A: Seelyeville	 Very limited		 Very limited		
•	Depth to	1.00	Content of	1.00	
	saturated zone		organic matter		
	Seepage	1.00	Depth to	1.00	
	Ponding	1.00	saturated zone	1 00	
	 		Seepage Ponding	1.00 1.00	
Markey	 Very limited		 Very limited		
rarvel	Depth to	1.00	Seepage	1.00	
	saturated zone		Depth to	1.00	
	Filtering	1.00	saturated zone		
	capacity		Ponding	1.00	
		1 00		1 00	
	Seepage	1.00	Content of	1.00	
	Seepage Ponding Restricted	1.00	Content or organic matter	1.00 	

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	 Septic tank absorption fiel 	ds	 Sewage lagoons 	\$
	Rating class and limiting features	Value	Rating class and limiting features	Value
410A: Seelyeville	 Very limited Depth to saturated zone Seepage Ponding	 1.00 1.00 1.00		 1.00 1.00 1.00
Cathro	 Very limited Depth to saturated zone Ponding Restricted permeability	 1.00 1.00 0.72		 1.00 1.00 1.00 1.00
419A: Seelyeville	 Very limited Depth to saturated zone Seepage Ponding	 1.00 1.00 1.00		 1.00 1.00 1.00
Cathro	Very limited Depth to saturated zone Ponding Restricted permeability	 1.00 1.00 0.72	Very limited Depth to saturated zone Seepage Ponding Content of organic matter	 1.00 1.00 1.00 1.00
Markey		 1.00 1.00 1.00		 1.00 1.00 1.00 1.00
421A: Dora	 Very limited Restricted permeability Depth to saturated zone Ponding	 1.00 1.00 1.00		 1.00 1.00 1.00
Markey		 1.00 1.00 1.00 1.00 0.46		 1.00 1.00 1.00 1.00

Table 18a.--Sanitary Facilities--Continued

	Map symbol and soil name	 Septic tank absorption fiel 	ds	 Sewage lagoons 	
A21A:		Rating class and	Value	Rating class and	Value
Very limited Very limited Depth to 1.00 Content of 1.00 Saturated zone Seepage 1.00 Depth to 1.00 Seepage 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Ponding 1.00 Seepage 1.00 See		limiting features		limiting features	
Very limited Very limited Depth to 1.00 Content of 1.00 Saturated zone Seepage 1.00 Depth to 1.00 Seepage 1.00 Seepage 1.00 Ponding 1.00 Ponding zone 1.00 Content of 1.00 Sepage 1.00 Depth to 1.00 Sepage 1.00 Depth to 1.00 Sepage 1.00 Ponding 1.00 Sepage 1.00 Ponding 1.00 Sepage 1.00 Ponding Ponding 1.00	 Vorm limited		 Vorm limited	l	
Sepage 1.00 Depth to 1.00	seeryeville		11.00		1 . 00
Seepage		: -		'	
		!	1.00		1.00
		Ponding	1.00	saturated zone	
					1.00
Very limited Depth to 1.00 Content of 1.00 Saturated zone Seepage 1.00 Depth to 1.00 Saturated zone Seepage 1.00 Depth to 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Restricted 0.72 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding				Ponding	1.00
Very limited Depth to 1.00 Content of 1.00 Saturated zone Seepage 1.00 Depth to 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding Ponding Pond	4227.	 		l I	l I
Depth to 1.00 Content of 1.00 Saturated zone Seepage 1.00 Depth to 1.00 Ponding 1.00 Saturated zone Seepage 1.00 Ponding 1.00		 Verv limited	1	 Verv limited	
Saturated zone Seepage 1.00 Depth to 1.00 Ponding 1.00 Saturated zone Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Ponding 1.00 Depth to 1.00 Depth to 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 Depth to 1.00 Depth to 1.00 Depth to 1.00 Depth to 1.00 Depth to 1.00 Depth to 1.00 Depth to 1.00 Depth to 1.00 Depth to 1.00 Seepage 1.00 Depth to 1.00 Seepage 1.00 Depth to	2001/011110		1.00		1.00
Ponding			i	!	İ
Seepage 1.00 Ponding 1.00 Cathro		Seepage	1.00	Depth to	1.00
Cathro		Ponding	1.00	saturated zone	
Cathro			ļ		1.00
Depth to saturated zone saturated zone Ponding 1.00 Seepage 1.00 Restricted 0.72 Ponding 1.00 permeability Content of 1.00 organic matter		 		Ponding	1.00
Depth to saturated zone saturated zone Ponding 1.00 Seepage 1.00 Restricted 0.72 Ponding 1.00 permeability Content of 1.00 organic matter	Cathro	 Verv limited	1	 Verv limited	
Saturated zone Saturated zone Ponding 1.00 Seepage 1.00	Cacini		1.00	! -	1.00
Restricted 0.72 Ponding 1.00 permeability Content of 1.00 organic matter			i		
Permeability Content of organic matter		Ponding	1.00	Seepage	1.00
Rondeau		Restricted	0.72	Ponding	1.00
Rondeau		permeability		!	1.00
Restricted		 -		organic matter	
Restricted	Pondeau	 Very limited	l I	 Very limited	1
permeability	Kondead	! -	1.00		1.00
Depth to 1.00 Seepage 1.00 saturated zone Ponding 1.00 Content of 1.00 organic matter		!			
Ponding			1.00	Seepage	1.00
		saturated zone		Ponding	1.00
### Add to see the company of the co		Ponding	1.00	!	1.00
Emmert				organic matter	
Emmert	426B.	 		l I	l I
Filtering		 Verv limited	İ	 Verv limited	
Seepage			1.00	! -	1.00
Mahtomedi		capacity	į	Slope	0.32
Filtering		Seepage	1.00		
Filtering					
capacity Slope 0.32 Seepage 1.00 Menahga	Mantomedi		1 00		1 00
Seepage			1		,
Menahga			1.00		
Filtering			į	İ	j
capacity Slope 0.32	Menahga	Very limited		Very limited	
Seepage			1.00		1.00
426C:				Slope	0.32
Emmert Very limited Very limited 1.00 Seepage 1.00 capacity Slope 1.00 Seepage 1.00 1.00		Seepage	1.00	 	
Emmert Very limited Very limited 1.00 Seepage 1.00 capacity Slope 1.00 Seepage 1.00 1.00	426C:	! 		! 	
Filtering 1.00 Seepage 1.00 capacity Slope 1.00 Seepage 1.00		 Very limited	İ	 Very limited	i
Seepage 1.00		! -	1.00		1.00
		capacity		Slope	1.00
Slope 0.04					
; - ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		Slope	0.04		

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	 Sewage lagoons 	.
	Rating class and limiting features	Value	Rating class and limiting features	Value
426C:]	
Mahtomedi	 Very limited	i	 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Slope	1.00
	Seepage Slope	1.00		
Menahga	 Very limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Slope	1.00
	Seepage	1.00		
	Slope 	0.04		
426D:	 	į		į
Emmert	Very limited Filtering	1.00	Very limited Slope	1.00
	capacity	1	Seepage	1.00
	Seepage	1.00		
	Slope	1.00	 -	į
Mahtomedi	 Very limited		 Very limited	
	Filtering	1.00	Slope	1.00
	capacity		Seepage	1.00
	Seepage	1.00		ļ
	Slope 	1.00		
Menahga	Very limited	į	Very limited	İ
	Filtering	1.00	Slope	1.00
	capacity		Seepage	1.00
	Seepage Slope	1.00	 	
430A:				
Freya	Very limited Restricted	1.00	Very limited Seepage	1.00
	permeability	1	Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone	į		İ
	Filtering	1.00		
	capacity		 	
439B:				į
Graycalm	Very limited		Very limited	
	Filtering capacity	1.00	Seepage Slope	1.00
	Seepage	1.00	Blobe	
	İ	į		İ
Menahga		1	Very limited	
	Filtering	1.00	Seepage	1.00
	capacity Seepage	1.00	Slope 	0.08
439C:	 		 	
Graycalm	 Very limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Slope	1.00
	Seepage Slope	1.00		ļ
		0.04		

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	Sewage lagoons 	lagoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value	
439C:	 				
Menahga	Very limited	i	 Very limited		
	Filtering	1.00	Seepage	1.00	
	capacity		Slope	1.00	
	Seepage Slope	1.00 0.04			
439D:					
Graycalm	Very limited	į	Very limited	j	
	Filtering	1.00	Slope	1.00	
	capacity		Seepage	1.00	
	Seepage Slope	1.00	 		
	blope				
Menahga	Very limited	İ	Very limited	į	
	Filtering	1.00	Slope	1.00	
	capacity		Seepage	1.00	
	Seepage Slope	1.00	 	1	
442C:					
Haugen	Very limited	1.00	Very limited		
	Depth to saturated zone	1.00	Slope Depth to	1.00	
	Restricted	1.00	saturated zone	0.75	
	permeability		Seepage	0.53	
Greenwood			 Very limited		
GI CCII#OOQ	Depth to	1.00	Content of	1.00	
	saturated zone		organic matter		
	Filtering	1.00	Depth to	1.00	
	capacity		saturated zone		
	Seepage	1.00	Seepage	1.00	
	Ponding	1.00	Ponding 	1.00	
443D:	j	į		į	
Amery	Very limited Slope	1.00	Very limited Slope	1.00	
	Restricted	1.00	Seepage	0.53	
	permeability	į		į	
Greenwood	 Very limited		 Very limited		
	Depth to	1.00	Content of	1.00	
	saturated zone		organic matter		
	Filtering	1.00	Depth to	1.00	
	capacity		saturated zone		
	Seepage Ponding	1.00 1.00	Seepage Ponding	1.00	
	į	į	-	į	
459A: Loxley	 Very limited		 Very limited		
TOVIEL	Depth to	1.00	Content of	1.00	
	saturated zone		organic matter		
	Filtering	1.00	Seepage	1.00	
	capacity	1	Depth to	1.00	
	Subsidence	1.00	saturated zone		
	Seepage	1.00	Ponding	1.00	
	Ponding	1.00		1	

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	Sewage lagoons 	
	Rating class and limiting features	Value	Rating class and limiting features	Value
		Ī		Ī
459A: Daisybay	 Very limited		 Very limited	
Daisybay	Restricted	1.00	Depth to	1.00
	permeability	i	saturated zone	i
	Depth to	1.00	Seepage	1.00
	saturated zone		Ponding	1.00
	Filtering capacity	1.00	Content of organic matter	1.00
	Ponding	1.00		ļ
Dawson	 Very limited		 Very limited	
	Depth to	1.00	Seepage	1.00
	saturated zone Filtering	1.00	Depth to saturated zone	1.00
	capacity	1	Ponding	1.00
	Subsidence	1.00	Content of	1.00
	Seepage	1.00	organic matter	İ
	Ponding 	1.00	 	
461A:	 Very limited	į	 	į
Bowstring	Flooding	1.00	Very limited Flooding	1.00
	Depth to	1.00	Seepage	1.00
	saturated zone		Depth to	1.00
	Filtering	1.00	saturated zone	
	capacity Subsidence	1.00	Ponding Content of	1.00
	Seepage	1.00	organic matter	
465A:	 		 	
Newson	Very limited		Very limited	
	Depth to saturated zone	1.00	Seepage Depth to	1.00
	Filtering	1.00	saturated zone	
	capacity	i	Ponding	1.00
	Seepage	1.00	Content of	1.00
	Ponding 	1.00	organic matter	
Meehan	Very limited	İ	Very limited	İ
	Depth to	1.00	Seepage	1.00
	saturated zone Filtering	1.00	Depth to saturated zone	1.00
	capacity		sacuraced zone	i
	Seepage	1.00		į
469E:	 		 	
Bigisland	-	1 00	Very limited	1.00
	Slope Content of large	1.00 0.61	Slope Seepage	1.00
	stones		Content of large stones	
Milaca	 Very limited		 Very limited	
	Depth to	1.00	· -	1.00
	saturated zone	1 00	Depth to	0.75
	Slope Restricted	1.00	saturated zone Seepage	0.53
	permeability			
	-			

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	 Sewage lagoons 	ons	
	Rating class and limiting features	Value	Rating class and limiting features	Value	
471B: Dairyland	Very limited Depth to saturated zone Filtering capacity Content of large stones	 1.00 1.00 0.60	Very limited Seepage Content of large stones Depth to saturated zone Slope	 1.00 1.00 0.75 0.08	
Emmert	 Very limited Filtering capacity Seepage	 1.00 1.00	 Seepage Slope	 1.00 0.08 	
	Very limited Depth to saturated zone Filtering capacity Content of large stones Slope Very limited Filtering capacity Seepage Slope Very limited Flooding Depth to saturated zone Content of large		stones Depth to saturated zone Very limited Seepage Slope Very limited Flooding Depth to saturated zone Seepage		
Clemens	Stones	 1.00 1.00 1.00 0.46	Content of large stones Content of organic matter Very limited Flooding Seepage Depth to saturated zone Content of large stones	1.00 1.00 1.00 1.00 0.91	
473A: Dairyland		 1.00 1.00 0.60	Very limited Seepage Content of large stones Depth to saturated zone	 1.00 1.00 0.75	

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	 Sewage lagoons 	ı
	Rating class and limiting features	Value	Rating class and limiting features	Value
473A:			l	
	 Very limited		 Very limited	1
5	Depth to	1.00	Seepage	1.00
	saturated zone	į	Depth to	1.00
	Filtering	1.00	saturated zone	
	capacity		Flooding	0.40
	Seepage	1.00		
	Flooding	0.40	 	l
484A:	 	1	 	
Greenwood	 Very limited	i	 Very limited	i
	Depth to	1.00	Content of	1.00
	saturated zone		organic matter	
	Filtering	1.00	Depth to	1.00
	capacity Seepage	1.00	saturated zone Seepage	1.00
	Ponding	1.00	Ponding	1.00
Beseman	Very limited	į	Very limited	į
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted	1.00	Seepage	1.00
	permeability Subsidence	1.00	Ponding Content of	1.00
	Ponding	1.00	organic matter	
				i
485C:	İ	İ		
Lupton	Very limited		Very limited	
	Depth to	1.00	Content of	1.00
	saturated zone	1.00	organic matter Depth to	1.00
	Seepage	1	saturated zone	1
		i	Slope	1.00
	į	İ	Seepage	1.00
	!			
Tawas	Very limited		Very limited	
	Depth to saturated zone	1.00	Seepage Depth to	1.00
	Filtering	1.00	saturated zone	1
	capacity		Slope	1.00
	Seepage	1.00	Ponding	1.00
	Ponding	1.00	Content of	1.00
			organic matter	
495B:	 		 	
Karlsborg	 Verv limited		 Very limited	
100119	Restricted	1.00	Seepage	1.00
	permeability	i	Depth to	0.99
	Depth to	1.00	saturated zone	
	saturated zone		Slope	0.32
	Filtering	1.00		
	capacity Seepage	1.00	 	
	Scopage		 	
Grettum	 Very limited	į	 Very limited	i
	Filtering	1.00	Seepage	1.00
	capacity		Slope	0.32
	Seepage	1.00	Depth to	0.17
	Depth to	0.84	saturated zone	Ţ
	saturated zone	1		

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	Sewage lagoons 	
	Rating class and limiting features	Value	Rating class and limiting features	Value
495B:	 		 	
	 Very limited	i	 Very limited	
	Restricted	1.00	Seepage	1.00
	permeability		Slope	0.32
	Depth to	1.00		
	saturated zone			
	Filtering	1.00	1	
	capacity Seepage	1.00	 	
495C:	 		 	
Karlsborg	 Verv limited		 Very limited	
	Restricted	1.00	Seepage	1.00
	permeability		Slope	1.00
	Depth to	1.00	Depth to	0.99
	saturated zone	İ	saturated zone	İ
	Filtering	1.00		
	capacity			
	Seepage	1.00		
	Slope 	0.04		
Grettum	Very limited	į	Very limited	j
	Filtering	1.00	Seepage	1.00
	capacity		Slope	1.00
	Seepage	1.00	Depth to	0.17
	Depth to	0.84	saturated zone	
	saturated zone Slope	0.04		
				İ
Perida	Very limited		Very limited	
	Restricted	1.00	Seepage	1.00
	permeability	1 00	Slope	1.00
	Depth to saturated zone	1.00	 	1
	Filtering	1.00		
	capacity			
	Seepage	1.00		İ
	Slope	0.04	1	
495D:	 			
Karlsborg	Very limited	İ	Very limited	İ
	Restricted	1.00	Slope	1.00
	permeability		Seepage	1.00
	Depth to	1.00	Depth to	0.99
	saturated zone		saturated zone	
	Filtering capacity	1.00	 	
	Capacity Seepage	1.00	 	
	Slope	1.00		
Grettum	 Very limited		 Very limited	
· ======	Filtering	1.00	Slope	1.00
	capacity	i	Seepage	1.00
	Seepage	1.00	Depth to	0.17
	Slope	1.00	saturated zone	
	Depth to	0.84	1	1
	saturated zone	10.01		!

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	 Septic tank absorption fiel	ds	 Sewage lagoons 	1
	Rating class and	Value	Rating class and limiting features	Value
495D:	 		 	
Perida	Restricted	1.00	Very limited Slope	1.00
	permeability Depth to saturated zone	1.00	Seepage 	1.00
	Filtering capacity	1.00	 	
	Seepage Slope	1.00		į Į
496B:	 		 	
Karlsborg	Very limited Restricted permeability	 1.00 	Very limited Seepage Depth to	 1.00 0.99
	Depth to saturated zone Filtering	1.00 1.00	saturated zone Slope	0.32
	capacity Seepage	1.00		İ
496C: Karlsborg	Very limited Restricted permeability Depth to saturated zone Filtering capacity Seepage Slope	 1.00 1.00 1.00 1.00 0.04	 Very limited Seepage Slope Depth to saturated zone	 1.00 1.00 0.99
496D: Karlsborg	 Very limited		 Very limited	
	Restricted permeability Depth to saturated zone Filtering capacity Seepage Slope	1.00 1.00 1.00 1.00	Slope Seepage Depth to saturated zone 	1.00 1.00 0.99
497A: Meenon	 Verv limited	į	 Very limited	į
	Restricted permeability Depth to	1.00 1.00	Seepage Depth to	1.00
	saturated zone Filtering capacity	1.00	İ	
	Seepage	1.00	 	j

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	 Sewage lagoons 	
	Rating class and limiting features	Value	Rating class and limiting features	Value
521A:			 	
Dody	 Very limited	i	 Very limited	İ
	Restricted	1.00	Seepage	1.00
	permeability		Depth to	1.00
	Depth to saturated zone	1.00	saturated zone Ponding	1.00
	Filtering	1.00	Content of	1.00
	capacity		organic matter	
	Seepage	1.00		j
	Ponding	1.00	 	
523A:	 		 	
Nokasippi	Very limited		Very limited	
	Depth to	1.00	Seepage	1.00
	saturated zone	1.00	Depth to saturated zone	1.00
	capacity	1	Ponding	1.00
	Ponding	1.00	Content of	1.00
	Restricted	0.46	organic matter	j
	permeability		 	
529B:				
Perida	Very limited		Very limited	
	Restricted	1.00	Seepage	1.00
	permeability Depth to	1.00	 	1
	saturated zone	1	 	
	Filtering	1.00		i
	capacity	İ		İ
	Seepage	1.00	 	
531A:				
Stengel	-		Very limited	
	Depth to	1.00	Seepage	1.00
	saturated zone Filtering	1.00	Depth to saturated zone	1.00
	capacity			
	Seepage	1.00		į
542B:				
Haugen, very stony	Very limited	į	Somewhat limited	j
	Depth to	1.00	Depth to	0.75
	saturated zone		saturated zone	
	Restricted permeability	1.00	Seepage Slope	0.53
			İ	
Haugen			Somewhat limited	
	Depth to saturated zone	1.00	Depth to saturated zone	0.75
	Restricted	1.00	Seepage	0.53
	permeability		Slope	0.32
542C:	 		 	
Haugen, very stony	 Very limited	i	 Very limited	
-	Depth to	1.00	Slope	1.00
	saturated zone		Depth to	0.75
	Restricted	1.00	saturated zone	
	Restricted permeability Slope	1.00 0.04	saturated zone Seepage	0.53

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	 Sewage lagoons 	3
did boll name		·ub	 	
	Rating class and limiting features	Value	Rating class and limiting features	Value
		i		i
542C:				
Haugen	Very limited	1	Very limited	!
	Depth to	1.00	Slope	1.00
	saturated zone	1.00	Depth to saturated zone	0.75
	permeability	1	Seepage	0.53
	Slope	0.04	 	
544F:			 	
Menahga	Very limited	i	 Very limited	i
	Filtering	1.00	Slope	1.00
	capacity		Seepage	1.00
	Slope	1.00		!
	Seepage	1.00	 	
Mahtomedi	· -	1	Very limited	
	Filtering	1.00	Slope	1.00
	capacity Slope	1.00	Seepage	1.00
	Seepage	1.00	 	i
		i		i
553B:		Ì	İ	Ì
Branstad	Very limited		Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted permeability	0.72	Seepage Slope	0.53
	permeability	l	blobe	
553C:		i	İ	i
Branstad	Very limited	İ	Very limited	İ
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	!
	Restricted	0.72	Slope	1.00
	permeability	0.04	Seepage	0.53
	Slope	0.04	 	
553D:		i		İ
Branstad	Very limited		Very limited	!
	Depth to	1.00	Slope	1.00
	saturated zone	11 00	Depth to	1.00
	Slope Restricted	1.00 0.72	saturated zone Seepage	0.53
	permeability		 	
555A:			 	
Fordum	 Very limited		 Very limited	
101000	Flooding	1.00	Flooding	1.00
	Depth to	1.00	Seepage	1.00
	saturated zone	į	Depth to	1.00
	Filtering	1.00	saturated zone	
	capacity	ļ	Ponding	1.00
	Seepage	1.00		
	Ponding	1.00	 	1
557B:				
Shawano	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Slope	0.08
	Seepage	1.00		1
	I	I	I	

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	 Sewage lagoons 	
	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	
557C:			 Town limited	
Shawano	Filtering	1.00	Very limited Seepage	1.00
	capacity		Slope	1.00
	Seepage	1.00		
	Slope	0.04	İ	İ
	ļ	[[
557D:				
Shawano	Very limited	1 00	Very limited	1 00
	Filtering capacity	1.00	Slope Seepage	1.00
	Seepage	1.00	bccpage	
	Slope	1.00		i
	į	į		i
586A:				
Chelmo			Very limited	
	Restricted	1.00	Seepage	1.00
	permeability	1.00	Depth to saturated zone	1.00
	Depth to saturated zone	1.00	saturated zone Ponding	1.00
	Filtering	1.00	Foliating	1
	capacity			i
	Seepage	1.00		i
	Ponding	1.00		İ
600A:	 Wat		 NT-LL-3	
Haplosaprists	Not rated		Not rated	
Psammaquents	Not rated		 Not rated	
•	į	į		i
615B:				
Cress	: -		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Slope	0.08
	Seepage	1.00	 	
615C:	İ		 	
	Very limited	i	 Very limited	i
	Filtering	1.00	Seepage	1.00
	capacity		Slope	1.00
	Seepage	1.00		
	Slope	0.04	 -	
615D:	l I		 	
	 Very limited		 Very limited	
	Filtering	1.00	Slope	1.00
	capacity	į	Seepage	1.00
	Seepage	1.00		
	Slope	1.00		
C20G				
620C: Lundeen	 Very limited	I	 Very limited	
Tandeen	Depth to bedrock	1,00	Depth to hard	1.00
			bedrock	
	i	i	Slope	1.00
			Seepage	0.53

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	 Septic tank absorption fiel 	ds	 Sewage lagoons 	
	Rating class and	Value	Rating class and limiting features	Value
620C: Haustrup	 Very limited Depth to bedrock 	 1.00 	 Very limited Depth to hard bedrock Slope Seepage	 1.00 1.00 0.53
Rock outcrop	 Not rated		 Not rated	
621A: Bjorkland	Very limited Restricted permeability Depth to saturated zone Filtering capacity Ponding	 1.00 1.00 1.00 1.00	 Very limited Seepage Depth to saturated zone Ponding Content of organic matter	 1.00 1.00 1.00 1.00
623A: Capitola	 Very limited Depth to saturated zone Ponding	 1.00 1.00 	Very limited Depth to saturated zone Ponding Content of organic matter Seepage	 1.00 1.00 1.00 0.53
624A: Ossmer	 Very limited Depth to saturated zone Filtering capacity Seepage Restricted permeability	 1.00 1.00 1.00 0.46	Very limited Seepage Depth to saturated zone	 1.00 1.00
631A: Giese		 1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Content of organic matter Seepage	 1.00 1.00 1.00 0.53
632A: Aftad	 Very limited Depth to saturated zone Restricted permeability	 1.00 1.00 	 Very limited Depth to saturated zone Seepage 	 1.00 0.53
632B: Aftad	 Very limited Depth to saturated zone Restricted permeability	 1.00 1.00	 Very limited Depth to saturated zone Seepage Slope	 1.00 0.53 0.32

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	 Sewage lagoons 	
	Rating class and limiting features	Value	Rating class and limiting features	Value
632C: Aftad	 Very limited Depth to saturated zone Restricted permeability Slope	 1.00 1.00 0.04	 Very limited Slope Depth to saturated zone Seepage	 1.00 0.99 0.53
634C:	 		 	
Drylanding	Very limited Depth to bedrock Content of large stones	'	Very limited Depth to hard bedrock Slope Content of large stones	 1.00 1.00 0.49
Beartree	Very limited Depth to bedrock Depth to saturated zone Content of large stones Ponding	1.00	Very limited Depth to hard bedrock Depth to saturated zone Content of large stones Ponding Content of organic matter	 1.00 1.00 1.00 1.00 1.00
Rock outcrop	 Not rated		 Not rated	
635C: Drylanding	 Very limited Depth to bedrock Flooding Content of large stones	0.40	Very limited Depth to hard bedrock Slope Content of large stones Flooding	 1.00 1.00 0.49 0.40
Beartree	Very limited Depth to bedrock Depth to saturated zone Content of large stones Ponding Flooding	1.00	bedrock Depth to saturated zone Content of large stones	 1.00 1.00 1.00 1.00
Rock outcrop	Not rated	į	Not rated	į
648B: Sconsin	 Very limited Depth to saturated zone Seepage Restricted permeability	 1.00 1.00 0.46	 Very limited Seepage Depth to saturated zone Slope	 1.00 0.99 0.32

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	 Sewage lagoons 	1
	Rating class and limiting features	Value	Rating class and limiting features	Value
669D:	 		 	
Fremstadt, stony	 Very limited	i	 Very limited	İ
•	Slope	1.00	Slope	1.00
	Seepage	1.00	Seepage	1.00
Pomroy	 Very limited		 Very limited	
romroy	Depth to	1.00	Slope	1.00
	saturated zone	j	Seepage	1.00
	Filtering	1.00	Depth to	0.75
	capacity		saturated zone	
	Slope Restricted	1.00 0.46	 	
	permeability		 	
671B:				
Spoonerhill, stony	 Very limited		 Very limited	
•	Depth to	1.00	Seepage	1.00
	saturated zone		Depth to	0.75
	Restricted	1.00	saturated zone	
	permeability		Slope 	0.32
Spoonerhill	 Very limited	i	 Very limited	i
	Depth to	1.00	Seepage	1.00
	saturated zone		Depth to	0.75
	Restricted	1.00	saturated zone	0.32
	permeability		Slope 	0.32
706A:				
Winterfield	Very limited Flooding	1 00	Very limited Flooding	1 00
	Depth to	1.00 1.00	Flooding Seepage	1.00 1.00
	saturated zone		Depth to	1.00
	Filtering	1.00	saturated zone	
	capacity			
	Seepage 	1.00	 	
Totagatic	 Very limited	i	 Very limited	i
	Flooding	1.00	Flooding	1.00
	Depth to	1.00	Seepage	1.00
	saturated zone	1.00	Depth to saturated zone	1.00
	capacity		Ponding	1.00
	Seepage	1.00		j
	Ponding	1.00		
715A:	 			
Mora	Very limited	į	Very limited	j
	Depth to	1.00	-	1.00
	saturated zone		saturated zone	0.53
	Restricted permeability	0.46	Seepage 	
717B:			 	
Milaca	 Very limited		 Somewhat limited	
	Depth to	1.00	Depth to	0.75
	saturated zone		saturated zone	
	Restricted permeability	0.46	Slope Seepage	0.68

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	Sewage lagoons	agoons	
	Rating class and limiting features	Value	Rating class and limiting features	Value	
717C: Milaca	Very limited Depth to saturated zone Restricted permeability Slope	 1.00 0.46 0.04	 Very limited Slope Depth to saturated zone Seepage	 1.00 0.75 0.53	
720F: Haustrup	 Very limited Depth to bedrock Slope 	 1.00 1.00 	 Very limited Depth to hard bedrock Slope Seepage	 1.00 1.00 0.53	
Lundeen	Very limited Depth to bedrock Slope	 1.00 1.00 	Very limited Depth to hard bedrock Slope Seepage	 1.00 1.00 0.53	
Rock outcrop	 Not rated 	 	 Not rated 	 	
726B: Sissabagama	Very limited Depth to saturated zone Filtering capacity Restricted permeability	 1.00 1.00 1.00	 Very limited Seepage Depth to saturated zone Slope	 1.00 1.00 0.08	
742B: Milaca	 Very limited Depth to saturated zone Restricted permeability	 1.00 0.46	 Somewhat limited Depth to saturated zone Seepage Slope	 0.75 0.53 0.32	
742C: Milaca	Very limited Depth to saturated zone Restricted permeability Slope	 1.00 0.46 0.04	 Very limited Slope Depth to saturated zone Seepage	 1.00 0.75 0.53	
742D: Milaca	 Very limited Depth to saturated zone Slope Restricted permeability	 1.00 1.00 0.46	 Very limited Slope Depth to saturated zone Seepage	 1.00 0.75 0.53	

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	Sewage lagoons 	
	Rating class and limiting features	Value	Rating class and limiting features	Value
755A: Moppet	 Very limited	i i	 Very limited	
	Flooding	1.00	Flooding	1.00
	Depth to	1.00	Seepage	1.00
	saturated zone	1.00	Depth to saturated zone	1.00
	capacity		sacuraced zone	
	Seepage	1.00		i
	Restricted	0.46		
	permeability		 	
Fordum	 Very limited		 Very limited	
	Flooding	1.00	Flooding	1.00
	Depth to	1.00	Seepage	1.00
	saturated zone	1.00	Depth to saturated zone	1.00
	capacity	1	Ponding	1.00
	Seepage	1.00		
	Ponding	1.00		
771A:			 	
Lenroot	 Very limited		 Very limited	
	Depth to	1.00	Seepage	1.00
	saturated zone	[Depth to	1.00
	Filtering	1.00	saturated zone	
	capacity Seepage	1.00		
		i		i
812B:		1		
Mora	Very limited Depth to	1.00	Very limited Depth to	1.00
	saturated zone		saturated zone	
	Restricted	0.46	Seepage	0.53
	permeability			
825A:			 	
Meehan	 Very limited	i	 Very limited	
	Depth to	1.00	Seepage	1.00
	saturated zone	1.00	Depth to saturated zone	1.00
	Filtering capacity	1.00	saturated zone	
	Seepage	1.00		İ
896A: Wurtsmith	 Very limited		 Very limited	
WUI CSMI CII	Depth to	1.00	Seepage	1.00
	saturated zone	i	Depth to	1.00
	Filtering	1.00	saturated zone	
	capacity Seepage	1.00	 	
	seepage	1		
980A:	İ	İ		i
Soderbeck	Very limited	1	Very limited	
	Depth to saturated zone	1.00	Seepage Depth to	1.00
	Filtering	1.00	saturated zone	
	capacity	İ	Content of large	0.92
	Seepage	1.00	stones	
	I			
	Depth to bedrock		Depth to hard	0.42
	Depth to bedrock Restricted permeability	0.78 0.46 	Depth to hard bedrock Flooding	0.42 0.40

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	 Sewage lagoons 	
	Rating class and limiting features	Value	Rating class and limiting features	Value
1070C:			 	
Fremstadt	Very limited	į	 Very limited	İ
	Seepage	1.00	Seepage	1.00
	Slope	0.16	Slope	1.00
Cress	 Very limited	İ	 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity Seepage	1.00	Slope	1.00
	Slope	0.04		
1070D:				
Fremstadt	Very limited Slope	1.00	Very limited Slope	1.00
	Seepage	1.00	Seepage	1.00
	İ	į		İ
Cress	Very limited		Very limited	
	Filtering capacity	1.00	Slope Seepage	1.00
	Seepage	1.00	beepage 	
	Slope	1.00		į
10000			l	
1080B: Spoonerhill	 Verv limited		 Very limited	
-F	Depth to	1.00	Seepage	1.00
	saturated zone	[Depth to	0.75
	Restricted	1.00	saturated zone	
	permeability		Slope 	0.32
Spoonerhill, stony	Very limited	į	Very limited	İ
	Depth to	1.00	Seepage	1.00
	saturated zone Restricted	1.00	Depth to saturated zone	0.75
	permeability		Slope	0.32
	!	İ		
Cress	Very limited Filtering	1.00	Very limited Seepage	1.00
	capacity		Slope	0.08
	Seepage	1.00	_	į
2002:			l	
Udorthents, earthen	 			
dams	Not rated	į	Not rated	İ
2015: Pits	 Not rated	1	 Not rated	
1100				
2050:	İ	İ		İ
Landfill	Not rated		Not rated	
3011A:			[
Barronett	_		Very limited	İ
	Depth to	1.00	-	1.00
	saturated zone Restricted	1.00	saturated zone Ponding	1.00
	permeability		Seepage	0.53
	Ponding	1.00		

Table 18a.--Sanitary Facilities--Continued

Rating class and Value Rating class and limiting features	Map symbol and soil name	Septic tank absorption fiel	ds	Sewage lagoons 	
New Seepage		Rating class and	Value	Rating class and	Value
Braham		limiting features		limiting features	
Braham			ļ		!
Filtering 1.00 Slope 1.00 Slope 1.00 Slope 1.00 Slope 1.00 Slope 1.00 Restricted 0.72 permeability					
Capacity Slope 1.00 Restricted 0.72 permeability	Branam	: -	1 00	: -	1 00
Slope 1.00			1	:	
Restricted 0.72		:	1.00	beepage	
Shawano		:	0.72		i
Filtering 1.00 Slope 1.00 Seepage 1.00 Seep		permeability	į	İ	İ
Filtering 1.00 Slope 1.00 Seepage 1.00 Seep					
Capacity Seepage 1.00 Seepage 1.00 Seepage 1.00 Slope 1.00 Slope 1.00 Saprists Very limited Ponding 1.00 Ponding 1.00 Depth to 1.00 Content of 1.00 Saturated zone Seepage 1.00 Depth to 1.00 Seepage 1.00 Seepage 1.00 Depth to 1.00 Seepage 1.00 Depth to 1.00 Seepage 1.00	Shawano	: -		: -	
Seepage 1.00			1.00	: -	
Slope			1 00	Seepage	1.00
Saprists Very limited Very limited Ponding 1.00 Ponding 1.00 Content of 1.00 Saturated zone Seepage 1.00 Depth to 1.00 Saturated zone Seepage 1.00 Ponding 1.00 Saturated zone Seepage 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Saturated zone Depth to 1.00 Seepage 1.00 Ponding 1.00 Ponding 1.00 Seepage				 	
Very limited Very limited Ponding 1.00 Ponding 1.00 Depth to 1.00 Content of 1.00 saturated zone Seepage 1.00 Depth to 1.00 Saturated zone Seepage 1.00 Ponding 1.00 Saturated zone Seepage 1.00 Ponding 1.00 Ponding 1.00 Depth to 1.00 Seepage 1.00 Ponding 1.00 Ponding 1.00 Seepage 1.00 Saturated zone Depth to 1.00 Seepage 1.00 Seepage 1.00 Seepage 1.00 Seepage 1.00 Ponding 1.00 Seepage 1.00 S				 	i
Ponding	3114A:	İ	į	İ	į
Depth to saturated zone Seepage 1.00 Content of saturated zone Seepage 1.00 Depth to saturated zone Seepage 1.00 Seepage 1.00	Saprists	Very limited		Very limited	
Saturated zone Organic matter Seepage 1.00 Depth to 1.00 Saturated zone Seepage 1.00 Seepage 1.00			1		
Seepage			1.00	1	1.00
Aquents			11 00		
Aquents		Seepage 	1.00		1.00
Aquents		 	l		1.00
Ponding		İ	i		
Depth to 1.00 Seepage 1.00 saturated zone Depth to 1.00 saturated zone Content of 1.00 Seepage 1.00 Seepage 1.00 organic matter	Aquents	Very limited	į	Very limited	İ
saturated zone Depth to 1.00 Filtering 1.00 saturated zone capacity Content of 1.00 Seepage 1.00 organic matter		Ponding	1.00	Ponding	1.00
Filtering 1.00 saturated zone capacity Content of 1.00 Seepage 1.00 organic matter			1.00		1
Capacity Content of 1.00 Seepage 1.00 organic matter		!		:	1.00
Seepage 1.00 organic matter			1.00	1	1 00
Aquepts			1.00	!	1
Ponding					i
Depth to 1.00 Seepage 1.00 saturated zone Depth to 1.00 Filtering 1.00 saturated zone Content of 1.00 Seepage 1.00 organic matter Restricted 0.46 permeability	Aquepts	Very limited	į	Very limited	İ
saturated zone		Ponding	1.00	Ponding	1.00
Filtering			1.00		!
capacity Content of 1.00 Seepage 1.00 organic matter Restricted 0.46 permeability		!			1.00
Seepage 1.00 organic matter Restricted 0.46			1.00		1 00
Restricted 0.46			1.00	!	1
permeability					i
Meehan		!	į		i
Meehan					
Depth to			ļ		
saturated zone Depth to 1.00 Filtering 1.00 saturated zone capacity	Meehan				
Filtering 1.00 saturated zone capacity			1.00		
capacity		!	1.00		1
					i
Wurtsmith Very limited Very limited 1.00 Seepage 1.00 saturated zone Depth to 1.00 1			1.00		i
Wurtsmith Very limited Very limited 1.00 Seepage 1.00 saturated zone Depth to 1.00 1					
Depth to 1.00 Seepage 1.00 saturated zone Depth to 1.00 Filtering 1.00 saturated zone capacity			ļ		
saturated zone Depth to 1.00 Filtering 1.00 saturated zone capacity	Wurtsmith	: -	11 00	: -	
Filtering 1.00 saturated zone capacity			1 . 00		
capacity		!	1,00		1
					i
i i i			1.00	İ	į

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	 Sewage lagoons 	
	Rating class and limiting features	Value	Rating class and limiting features	Value
3312B:	 		 	
Glendenning, very		ļ		
stony	Very limited		Very limited	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Restricted	1.00	Seepage	0.53
	permeability		 	
Glendenning	 Very limited		 Very limited	
-	Depth to	1.00	Depth to	1.00
	saturated zone	ĺ	saturated zone	İ
	Restricted	1.00	Seepage	0.53
	permeability			
3336A:				
Fenander			Very limited	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Restricted	1.00	Ponding	1.00
	permeability		Seepage	0.53
	Ponding	1.00		į
3403A:				
Loxley	Very limited		Very limited	
	Depth to	1.00	Content of	1.00
	saturated zone		organic matter	
	Filtering	1.00	Seepage	1.00
	capacity Subsidence	1.00	Depth to saturated zone	1.00
	Seepage	1.00	Ponding	1.00
	Ponding	1.00		
Beseman	 Very limited		 Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted	1.00	Seepage	1.00
	permeability		Ponding	1.00
	Subsidence Ponding	1.00	Content of organic matter	1.00
Dawson	Very limited		Very limited	
	Depth to saturated zone	1.00	Seepage	1.00
	Filtering	1.00	Depth to saturated zone	1
	capacity		Ponding	1.00
	Subsidence	1.00	Content of	1.00
	Seepage	1.00	organic matter	İ
	Ponding	1.00	 	
3429B:	 		 	
Lara	Very limited		Very limited	
	Restricted	1.00	Seepage	1.00
	permeability		Depth to	1.00
	Depth to	1.00	saturated zone	1
	saturated zone	i	Slope	0.08

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fiel	ds	 Sewage lagoons 	ı
	Rating class and limiting features	Value	Rating class and limiting features	Value
3429C: Lara	 Very limited Restricted permeability Depth to saturated zone	 1.00 1.00	 Very limited Seepage Depth to saturated zone Slope	 1.00 1.00 1.00
3446A:	Slope	0.04		
Newson	 Very limited Depth to saturated zone Filtering capacity Seepage Ponding	 1.00 1.00 1.00	Very limited Seepage Depth to saturated zone Ponding Content of organic matter	 1.00 1.00 1.00 1.00
3448B: Grettum	 Very limited Filtering capacity Seepage Depth to saturated zone	 1.00 1.00 0.84	 Very limited Seepage Depth to saturated zone Slope	 1.00 0.17 0.08
3448C: Grettum	 Very limited Filtering capacity Seepage Depth to saturated zone Slope	 1.00 1.00 0.84 	 Very limited Seepage Slope Depth to saturated zone	 1.00 1.00 0.17
3510B: Pomroy	 Very limited Depth to saturated zone Filtering capacity Restricted permeability	 1.00 1.00 0.46	 Very limited Seepage Depth to saturated zone Slope	 1.00 0.75 0.32
Fremstadt	 Very limited Seepage 	 1.00	 Very limited Seepage Slope	 1.00 0.32
Fremstadt, stony	 Very limited Seepage 	 1.00 	 Very limited Seepage Slope	 1.00 0.32
3510C: Pomroy	 Very limited Depth to saturated zone Filtering capacity Restricted permeability Slope	 1.00 1.00 1.00 0.46 0.16	 Very limited Seepage Slope Depth to saturated zone	 1.00 1.00 0.75

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	 Septic tank absorption fiel 	ds	 Sewage lagoons 	
	Rating class and limiting features	Value	Rating class and limiting features	Value
3510C:	 		 	
Fremstadt	 Very limited		 Very limited	
	Seepage	1.00	_	1.00
	Slope	0.16	Slope	1.00
Fremstadt, stony	 		 Very limited	
Fremstadt, stony	Seepage	1.00	Seepage	1.00
	Slope	0.16	Slope	1.00
	[[
3511A:	 			
Bushville	Very limited Depth to	1.00	Very limited Seepage	1.00
	saturated zone		Depth to	1.00
	Filtering	1.00	-	i
	capacity	ļ		
	Restricted	0.46		
	permeability	 	 	
3516A:				
Slimlake	Very limited	İ	Very limited	İ
	Depth to	1.00	Seepage	1.00
	saturated zone Filtering	1.00	Depth to saturated zone	1.00
	capacity		sacuraced zone	
	Seepage	1.00		İ
3625A: Lino	 Tom: limited		 Very limited	
ппо	Depth to	1.00	Seepage	1.00
	saturated zone		Depth to	1.00
	Filtering	1.00	saturated zone	
	capacity			
	Seepage	1.00	 	
3626A:		İ		
Crex	Very limited	[Very limited	[
	Depth to	1.00	Seepage	1.00
	saturated zone	1.00	Depth to saturated zone	1.00
	capacity			
	Seepage	1.00		İ
2620D -	l		l	
3629B: Perida	 Verv limited		 Very limited	
101144	Restricted	1.00	Seepage	1.00
	permeability	İ		İ
	Depth to	1.00		
	saturated zone	1.00	 	
	capacity	1		
	Seepage	1.00		
3636B:	 		 Worn limited	
		1 00	Very limited Depth to soft	1.00
Plainbo	Depth to bedrock	1 1 . 00		
Plainbo	Depth to bedrock Filtering	1.00	bedrock	
Plainbo	: -	1	_	 1.00 1.00

Table 18a.--Sanitary Facilities--Continued

Map symbol and soil name	Septic tank absorption fields		Sewage lagoons	
	l		<u> </u>	
	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	
3636C:	 	 	 	
Plainbo	Very limited	i	Very limited	i
	Depth to bedrock	1.00	Depth to soft	1.00
	Filtering	1.00	bedrock	İ
	capacity	İ	Seepage	1.00
	Seepage	1.00	Slope	1.00
	Slope	0.04		İ
M-W:	 		 	
Miscellaneous water	Not rated	į	Not rated	
W:	 			
Water	Not rated	ļ	Not rated	1

Table 18b.--Sanitary Facilities

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	 Rating class and limiting features	Value	 Rating class and limiting features	Value	 Rating class and limiting features	Value
						ļ
3A: Totagatic			 Very limited		 Very limited	
TOTAGATIC	Flooding	1.00	Flooding	1.00		1.00
	Depth to	1.00	Depth to	1.00	saturated zone	1
	saturated zone		saturated zone		Too sandy	1.00
	Seepage	1.00	Seepage	1.00	Seepage	1.00
	Too sandy	1.00	Ponding	1.00	Ponding	1.00
	Ponding	1.00		į		į
Bowstring	 Very limited		 Very limited		 Very limited	
	Flooding	1.00	Flooding	1.00	Depth to	1.00
	Depth to	1.00	Depth to	1.00	saturated zone	
	saturated zone		saturated zone		Content of	1.00
	Content of	1.00	Seepage	1.00	organic matter	
	organic matter		Piping	1.00		1.00
	Seepage	1.00		!	Seepage	0.16
	Ponding 	1.00				
Ausable	 Very limited	İ	 Very limited	i	 Very limited	i
	Flooding	1.00	Flooding	1.00	Depth to	1.00
	Depth to	1.00	Depth to	1.00	saturated zone	İ
	saturated zone		saturated zone		Too sandy	1.00
	Seepage	1.00	Seepage	1.00	Seepage	1.00
	Too sandy	1.00	Ponding	1.00	Ponding	1.00
	Ponding	1.00	 		 	
12A:						İ
Makwa	Very limited		Very limited	'	Very limited	1
	Flooding	1.00	Flooding	1.00		1.00
	Depth to	1.00	Depth to	1.00	saturated zone	
	saturated zone	1.00	saturated zone		Ponding	1.00
	Ponding Content of large		Seepage Ponding	1.00	Gravel content Seepage	0.71
	stones	10.07	Policing	1	Content of large	1
			 		stones	
22A:	[[[]		[
Comstock	 Very limited		 Very limited		 Very limited	i
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	į	saturated zone	į
27A:	 		 		 	
Scott Lake	Very limited	İ	 Very limited	i	 Very limited	i
	Depth to	1.00		1.00	Too sandy	1.00
	saturated zone	İ	saturated zone	İ	Seepage	1.00
	Seepage	1.00	Seepage	1.00	Depth to	0.47
	Too sandy	1.00			saturated zone	
		1			Gravel content	0.09

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	У	Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
28B: Haugen, very stony	Very limited Depth to saturated zone	 0.99 	 Somewhat limited Depth to saturated zone	 0.75	 Somewhat limited Depth to saturated zone Gravel content	 0.86 0.01
Haugen	 Very limited Depth to saturated zone	 0.99 	Somewhat limited Depth to saturated zone	 0.75 	Somewhat limited Depth to saturated zone Gravel content	0.86
Rosholt, very stony	 Very limited Seepage Too sandy 	 1.00 1.00	 Very limited Seepage 	 	 Very limited Too sandy Seepage Gravel content	 1.00 1.00 0.06
Rosholt	 Very limited Seepage Too sandy 	 1.00 1.00 	 Very limited Seepage 	 	 Very limited Too sandy Seepage Gravel content	 1.00 1.00 0.02
28C: Haugen, very stony	 Very limited Depth to saturated zone Slope	 0.99 0.04	 Somewhat limited Depth to saturated zone Slope	 0.75 0.04	 Somewhat limited Depth to saturated zone Slope Gravel content	 0.86 0.04 0.01
Haugen	 Very limited Depth to saturated zone Slope	 0.99 0.04	Somewhat limited Depth to saturated zone Slope	 0.75 0.04	Somewhat limited Depth to saturated zone Slope Gravel content	 0.86 0.04 0.01
Rosholt, very stony	 Very limited Seepage Too sandy Slope	 1.00 1.00 0.04	 Very limited Seepage Slope 	 1.00 0.04 	:	 1.00 1.00 0.06 0.04
Rosholt	 Very limited Seepage Too sandy Slope	 1.00 1.00 0.04	 Very limited Seepage Slope 	 1.00 0.04 		 1.00 1.00 0.04 0.02
38A: Rosholt	 Very limited Seepage Too sandy 	 1.00 1.00	 Very limited Seepage 	 1.00 	 Very limited Too sandy Seepage Gravel content	 1.00 1.00 0.02
38B: Rosholt	 Very limited Seepage Too sandy 	 1.00 1.00 	 Very limited Seepage 	 1.00 	 Very limited Too sandy Seepage Gravel content	 1.00 1.00 0.02

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill 	
	Rating class and	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
38C: Rosholt	Very limited Seepage Too sandy Slope	 1.00 1.00 0.04	 Very limited Seepage Slope 	 1.00 0.04 		 1.00 1.00 0.04 0.02
38D: Rosholt	 Very limited Seepage Too sandy Slope	 1.00 1.00 1.00	 Very limited Seepage Slope	 1.00 1.00 	 Very limited Too sandy Seepage Slope Gravel content	 1.00 1.00 1.00 0.02
42D: Amery	 Very limited Slope 	 1.00 	 Very limited Slope 	 1.00 	 Very limited Slope Gravel content	 1.00 0.02
43B: Antigo	 Very limited Seepage Too sandy	 1.00 1.00	 Very limited Seepage 	 1.00 	 Very limited Too sandy Seepage	 1.00 1.00
43C: Antigo	 Very limited Seepage Too sandy Slope	 1.00 1.00 0.37	 Very limited Seepage Slope	 1.00 0.37 	 Very limited Too sandy Seepage Slope	 1.00 1.00 0.37
63A: Crystal Lake	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Somewhat limited Depth to saturated zone	 0.86
63B: Crystal Lake	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Somewhat limited Depth to saturated zone	 0.86
63C: Crystal Lake	 Very limited Depth to saturated zone Slope	 1.00 0.04	 Very limited Depth to saturated zone Slope	 1.00 0.04	Somewhat limited Depth to saturated zone Slope	0.86
64A: Totagatic	 Very limited Flooding Depth to saturated zone Seepage Too sandy Ponding	 1.00 1.00 1.00 1.00	 Very limited Flooding Depth to saturated zone Seepage Ponding	 1.00 1.00 1.00 1.00	 Very limited Depth to saturated zone Too sandy Seepage Ponding	 1.00 1.00 1.00
Winterfield	 Very limited Flooding Depth to saturated zone Seepage Too sandy	 1.00 1.00 1.00 1.00	 Very limited Flooding Depth to saturated zone Seepage	 1.00 1.00 1.00	 Very limited Depth to saturated zone Too sandy Seepage	 1.00 1.00 1.00

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	Y	Area sanitary	•	Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
69C:				 		
Keweenaw	Very limited	İ	Very limited	į	Somewhat limited	į
	Seepage	1.00	Seepage	1.00	•	0.50
	Too sandy	0.50 0.16	Slope	0.16		0.22
	Slope	0.10	 		Slope	0.16
Sayner	 Very limited	j	 Very limited	į	 Very limited	İ
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00	Slope	0.16		1.00
	Slope	0.16	 		Slope Gravel content	0.16
	 			İ	Graver concent	
Vilas	Very limited	j	 Very limited	i	Very limited	į
	Seepage	1.00	Seepage	1.00	-	1.00
	Too sandy	1.00	Slope	0.16	Seepage	1.00
	Slope	0.16	 	1	Slope	0.16
69E:				i		İ
Keweenaw	Very limited	j	Very limited	į	Very limited	į
	Slope	1.00	Slope	1.00	Slope	1.00
	Seepage	1.00	Seepage	1.00	-	0.50
	Too sandy	0.50	 		Seepage	0.22
Sayner	 Very limited		 Very limited	i	 Very limited	i
-	Slope	1.00	Slope	1.00	Slope	1.00
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00			Seepage	1.00
	 		 		Gravel content	0.03
Vilas	 Very limited		 Very limited		 Very limited	
	Slope	1.00	Slope	1.00	_	1.00
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00			Seepage	1.00
82B:	l I	l l	 		 	l I
Cutaway	 Very limited		 Very limited	İ	Somewhat limited	ì
-	Depth to	1.00	_	1.00	Depth to	0.86
	saturated zone		saturated zone	[saturated zone	
			Seepage	1.00		
Branstad	 Verv limited		 Very limited		 Somewhat limited	1
	Depth to	1.00	Depth to	1.00	Depth to	0.86
	saturated zone	İ	saturated zone	İ	saturated zone	İ
				-		
82C: Cutaway	 Very limited		 Very limited		 Somewhat limited	1
cucaway	Depth to	1.00	_	1.00		0.86
	saturated zone		saturated zone		saturated zone	İ
	Slope	0.04	Seepage	1.00	Slope	0.04
			Slope	0.04		
Branstad	 Verv limited		 Very limited	 	 Somewhat limited	1
	Depth to	1.00	_	1.00		0.86
	saturated zone	Ì	saturated zone	İ	saturated zone	Ì
	Slope	0.04	Slope	0.04	Slope	0.04
83A:	 		[1
Smestad	 Very limited		 Very limited		 Very limited	
	Depth to	1.00	_	1.00	_	1.00
	saturated zone		saturated zone		saturated zone	
	Too sandy	0.50	Seepage	1.00	Too sandy	0.50

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitary		Area sanitary		Daily cover for landfill	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	
85B: Taylor	 Very limited Depth to saturated zone Too clayey	 1.00 1.00	 Very limited Depth to saturated zone 	 1.00 	Very limited Depth to saturated zone Too clayey Hard to compact	 1.00 1.00
059						
85C: Taylor	 Very limited Depth to saturated zone Too clayey Slope 	 1.00 1.00 0.04	 Very limited Depth to saturated zone Slope 	 1.00 0.04 	 Very limited Depth to saturated zone Too clayey Hard to compact Slope	 1.00 1.00 1.00 0.04
86A:	j	į		İ	İ	İ
Indus	Very limited Depth to saturated zone Too clayey Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Ponding	 1.00 1.00 	Very limited Depth to saturated zone Too clayey Hard to compact Ponding	 1.00 1.00 1.00
Alango	 Very limited Depth to saturated zone Too clayey	 1.00 1.00	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone Too clayey Hard to compact	 1.00 1.00 1.00
89A:	 		 	1	 	
Wildwood	Very limited Depth to saturated zone Too clayey Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Ponding	 1.00 1.00 	Very limited Depth to saturated zone Too clayey Hard to compact Ponding	 1.00 1.00 1.00
96B:						
Karlsborg	Very limited Depth to saturated zone Seepage Too sandy	 1.00 1.00 1.00	Very limited Seepage Depth to saturated zone 	 1.00 0.99 	Very limited Too sandy Seepage Too clayey Depth to saturated zone	 1.00 1.00 1.00 0.99
96C: Karlsborg	 Very limited Depth to saturated zone Seepage Too sandy Slope	 1.00 1.00 1.00 0.04	 Very limited Seepage Depth to saturated zone Slope	 1.00 0.99 0.04	Very limited Too sandy Seepage Too clayey Depth to saturated zone Slope	 1.00 1.00 1.00 0.99

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	тy	 Area sanitary landfill 		Daily cover fo	or
	Rating class and limiting features		Rating class and limiting features	Value	Rating class and limiting features	Value
96D:			 			
Karlsborg	 Very limited	İ	 Very limited	İ	 Very limited	i
	Depth to	1.00	Seepage	1.00	Too sandy	1.00
	saturated zone		Slope	1.00		1.00
	Seepage	1.00		0.99		1.00
	Too sandy	1.00	saturated zone		Slope	1.00
	Slope	1.00	 		Depth to saturated zone	0.99
100B:			 			
Menahga	Very limited	İ	Very limited	ĺ	Very limited	İ
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00	 		Seepage	1.00
100C: Menahga	 Verv limited		 Very limited		 Very limited	
	Seepage	1.00		1.00		1.00
	Too sandy	1.00	Slope	0.04	· -	1.00
	Slope	0.04	 -		Slope	0.04
100D:						
Menahga	· -		Very limited		Very limited	
	Seepage Too sandy	1.00		1.00 1.00		1.00
	Slope	1.00	blobe		Slope	1.00
120B:	 		 		 	
Kost	· -		Very limited		Very limited	1
	Seepage	1.00	Seepage	1.00	-	1.00
	Too sandy	1.00	 		Seepage	1.00
127D: Amery	 Very limited		 Very limited		 Very limited	
imery	Slope	1.00		1.00		1.00
					Gravel content	0.02
Rosholt	 Very limited		 Very limited		 Very limited	
	Seepage	1.00		1.00	-	1.00
	Too sandy	1.00	Slope	1.00		1.00
	Slope 	1.00	 		Slope Gravel content	1.00 0.06
127E:	 		 			
Amery	Very limited	İ	 Very limited		Very limited	İ
	Slope	1.00	Slope	1.00	Slope Gravel content	1.00
Rosholt	-		Very limited		Very limited	
	Slope	1.00	Slope	1.00	-	1.00
	Seepage Too sandy	1.00 1.00	Seepage 	1.00	Too sandy Seepage	1.00
			 		Gravel content	0.06
151A:			 		 	
Bluffton	-	1	Very limited		Very limited	1
	Depth to	1.00		1.00	-	1.00
	saturated zone		saturated zone		saturated zone	
	Ponding	1.00	Ponding	1.00	Ponding	1.00

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	 Trench sanitar landfill	У	 Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	 Rating class and limiting features	Value	 Rating class and limiting features	Value
152A: Alstad	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	:	Very limited Depth to saturated zone	 1.00
154E: Cushing	 Very limited Slope		 Very limited Slope	 1.00	 Very limited Slope	1.00
156B: Magnor, very stony	 Very limited Depth to saturated zone	:	 Very limited Depth to saturated zone	:	 Very limited Depth to saturated zone	 1.00
Magnor	Very limited Depth to saturated zone	'	 Very limited Depth to saturated zone 	 1.00 	Very limited Depth to saturated zone	 1.00
157B: Freeon, very stony	Very limited Depth to saturated zone		 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00
Freeon	 Very limited Depth to saturated zone	'	 Very limited Depth to saturated zone	1	 Very limited Depth to saturated zone	 1.00
157C: Freeon, very stony	 Very limited Depth to saturated zone Slope	 1.00 0.04	saturated zone	1.00	 Very limited Depth to saturated zone Slope	 1.00 0.04
Freeon	 Very limited Depth to saturated zone Slope	 1.00 0.04	saturated zone	 1.00 0.04	saturated zone	 1.00 0.04
160A: Oesterle	 Very limited Depth to saturated zone Seepage Too sandy	 1.00 1.00 1.00	 Very limited Depth to saturated zone Seepage	 1.00 1.00	 Very limited Depth to saturated zone Too sandy Seepage Gravel content	 1.00 1.00 1.00 0.04
165B: Elderon	 Very limited Seepage Too sandy Content of large stones	1.00	 Very limited Seepage 	 1.00 		 1.00 0.50 0.28 0.23

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	У	 Area sanitary landfill		Daily cover fo	or
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
185B: Tradelake	 Very limited Depth to saturated zone Seepage Too clayey	 1.00 1.00 1.00	 Very limited Depth to saturated zone 	 0.99 	 Very limited Seepage Too clayey Hard to compact Depth to saturated zone	 1.00 1.00 1.00 0.99
Taylor	 Very limited Depth to saturated zone Too clayey	 1.00 1.00	 Very limited Depth to saturated zone 	 1.00 	Very limited Depth to saturated zone Too clayey Hard to compact	 1.00 1.00 1.00
185C: Tradelake	 Very limited Depth to saturated zone Seepage Too clayey Slope	 1.00 1.00 1.00 0.04	 Very limited Depth to saturated zone Slope 	 0.99 0.04 	Very limited Seepage Too clayey Hard to compact Depth to saturated zone Slope	 1.00 1.00 1.00 0.99
Taylor		 1.00 1.00 0.04		 1.00 0.04 	Very limited Depth to saturated zone Too clayey Hard to compact Slope	 1.00 1.00 1.00 0.04
185D:						
Tradelake	Very limited Seepage Too clayey Slope Depth to saturated zone	 1.00 1.00 1.00 0.99	Very limited Slope Depth to saturated zone	 1.00 0.75 	Very limited Seepage Too clayey Hard to compact Slope Depth to saturated zone	 1.00 1.00 1.00 1.00 0.86
Taylor	 Very limited Depth to saturated zone Too clayey Slope	 1.00 1.00 1.00	Very limited Depth to saturated zone Slope	 1.00 1.00 	 Very limited Depth to saturated zone Too clayey Hard to compact Slope	 1.00 1.00 1.00
185E:						
Tradelake	Very limited Slope Seepage Too clayey Depth to saturated zone	 1.00 1.00 1.00 0.99	Very limited Slope Depth to saturated zone	 1.00 0.75 	Very limited Slope Seepage Too clayey Hard to compact Depth to saturated zone	 1.00 1.00 1.00 1.00 0.86
Taylor	 Very limited Depth to saturated zone Slope Too clayey	 1.00 1.00 1.00	 Very limited Slope Depth to saturated zone 	 1.00 1.00 	Very limited Slope Depth to saturated zone Too clayey Hard to compact	 1.00 1.00 1.00 1.00

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitary		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and	Value	Rating class and limiting features	Value
						<u> </u>
189A: Siren	 Very limited Depth to	 1.00	 Very limited Depth to	 1.00	 Very limited Depth to	 1.00
	saturated zone Too clayey	1.00	saturated zone		saturated zone Too clayey	1.00
	 		[[Hard to compact	1.00
193A: Minocqua	 		 Very limited	İ	 Very limited	į
minocquu	Depth to saturated zone	1.00	! -	1.00		1.00
	Seepage	1.00	Seepage	1.00	!	1.00
	Too sandy	1.00	Ponding	1.00		1.00
	Ponding	1.00	 		Ponding Gravel content	1.00
337A:	 		 		 	
Plover			Very limited		Very limited	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Too sandy	1.00	saturated zone		Too sandy	1.00
368B:			 			
Mahtomedi	Very limited Seepage		Very limited	1.00	Very limited Too sandy	11 00
	Too sandy	1.00	Seepage 	1.00	Too sandy Seepage	1.00
					Gravel content	0.01
Cress	: -	:	 Very limited	:	 Very limited	
	Seepage Too sandy	1.00	Seepage	1.00	Too sandy Seepage	1.00
	Too sandy		 -		Gravel content	0.02
368C:	 		 		 	
Mahtomedi		:	Very limited	:	Very limited	
	Seepage Too sandy	1.00	Seepage Slope	1.00	:	1.00
	Slope	0.04			Slope	0.04
	 	i i	 	i I	Gravel content	0.01
Cress	Very limited		 Very limited	:	Very limited	
	Seepage	1.00 1.00	Seepage Slope	1.00 0.04		1.00
	Too sandy Slope	0.04	blope		Seepage Slope	1.00 0.04
	- 	į į	 	į į	Gravel content	0.02
368D:					 	
Mahtomedi	Very limited Seepage	1.00	Very limited Seepage	1.00	Very limited Too sandy	1.00
	Too sandy	1.00	Slope	1.00	Seepage	1.00
	Slope	1.00			Slope	1.00
	 		 		Gravel content	0.01
Cress	Very limited	1.00	Very limited	1.00	Very limited	1.00
	Seepage Too sandy	1.00	Seepage Slope	1.00	Too sandy Seepage	1.00
	Slope	1.00			Slope	1.00
	[Gravel content	0.02

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	У	Area sanitary	Area sanitary landfill		Daily cover for landfill	
	Rating class and	Value			Rating class and	Value	
	limiting features	<u> </u>	limiting features	1	limiting features	1	
368E:							
Mahtomedi	Very limited	į	Very limited	j	Very limited	j	
	Slope	1.00	Slope	1.00	Slope	1.00	
	Seepage	1.00	Seepage	1.00	·	1.00	
	Too sandy	1.00	 		Seepage Gravel content	1.00	
	 		 		Gravel content	0.01	
Cress	 Very limited	i	 Very limited	İ	 Very limited	İ	
	Slope	1.00	Slope	1.00	Slope	1.00	
	Seepage	1.00	Seepage	1.00	Too sandy	1.00	
	Too sandy	1.00			Seepage	1.00	
	!	ļ			Gravel content	0.02	
380B:	l I		 		 		
Cress	 Verv limited	i	 Very limited	l İ	 Very limited	İ	
	Seepage	1.00	-	1.00		1.00	
	Too sandy	1.00		i	Seepage	1.00	
	į	į		İ	Gravel content	0.02	
		ļ					
Rosholt			Very limited		Very limited		
	Seepage	1.00	Seepage	1.00		1.00	
	Too sandy	1.00	İ		Seepage Gravel content	1.00	
	 		 	 	Graver concent	0.02	
380C:		i		İ		i	
Cress	Very limited		Very limited		Very limited		
	Seepage	1.00	Seepage	1.00	Too sandy	1.00	
	Too sandy	1.00	Slope	0.04	Seepage	1.00	
	Slope	0.04		ļ	Slope	0.04	
			l I		Gravel content	0.02	
Rosholt	 Verv limited	l	 Very limited	 	 Very limited	I I	
	Seepage	1.00	_	1.00		1.00	
	Too sandy	1.00		0.04	·	1.00	
	Slope	0.04		İ	Slope	0.04	
					Gravel content	0.02	
380D:			 				
	 Very limited		 Very limited	 	 Very limited		
	Seepage	1.00	_	1.00		1.00	
	Too sandy	1.00	Slope	1.00	·	1.00	
	Slope	1.00		İ	Slope	1.00	
	ĺ	ĺ		ĺ	Gravel content	0.02	
Darbalt	 		 		 		
Rosholt	-	1 00	Very limited	1.00	Very limited	1 00	
	Seepage Too sandy	1.00	Seepage	1.00	Too sandy Seepage	1.00	
	Slope	1.00	Slope 	1	Seepage Slope	1.00	
	blope		 		Gravel content	0.02	
383B:							
Mahtomedi	· -		Very limited		Very limited		
	Seepage	1.00	Seepage	1.00	Too sandy	1.00	
	Too sandy	1.00	 	1	Seepage Gravel content	1.00	
	1	1	l .	1	Graver Content	10.0T	

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitary		Area sanitary landfill		Daily cover for	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
383C: Mahtomedi	 Very limited Seepage Too sandy Slope	 1.00 1.00 0.04	 Very limited Seepage Slope	 1.00 0.04	 Very limited Too sandy Seepage Slope Gravel content	 1.00 1.00 0.04 0.01
383D: Mahtomedi	 Very limited Seepage Too sandy Slope 	 1.00 1.00 1.00	 Very limited Seepage Slope 	 1.00 1.00 	 Very limited Too sandy Seepage Slope Gravel content	 1.00 1.00 1.00 0.01
392C: Rockmarsh	Very limited Depth to saturated zone Content of large stones Slope	1.00	 Very limited Depth to saturated zone Seepage Slope	 1.00 1.00 0.37	Very limited Depth to saturated zone Content of large stones Seepage Slope Gravel content	 1.00 0.88 0.52 0.37 0.17
Dairyland	Very limited Depth to saturated zone Content of large stones Too sandy Slope	 0.99 0.59 0.50 0.37	 Very limited Seepage Depth to saturated zone Slope 	 1.00 0.75 0.37	Very limited Seepage Depth to saturated zone Gravel content Content of large stones Too sandy	 1.00 0.86 0.66 0.59
Makwa	 Very limited Depth to saturated zone Content of large stones	1.00	 Very limited Depth to saturated zone Seepage 	 1.00 1.00 	Very limited Depth to saturated zone Gravel content Seepage Content of large stones	 1.00 0.71 0.16 0.07
396B: Friendship	 Very limited Depth to saturated zone Seepage Too sandy	 1.00 1.00	 Very limited Depth to saturated zone Seepage	 1.00 1.00	 Very limited Too sandy Seepage 	 1.00 1.00
Wurtsmith	 Very limited Depth to saturated zone Seepage Too sandy	 1.00 1.00 1.00	 Very limited Depth to saturated zone Seepage	 1.00 1.00	 Very limited Too sandy Seepage Depth to saturated zone	 1.00 1.00 0.86
Grayling	 Very limited Seepage Too sandy 	 1.00 1.00	 Very limited Seepage 	 1.00 	 Very limited Too sandy Seepage	 1.00 1.00

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary		Daily cover for landfill	
	Rating class and	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
397A:		İ		İ		
Perchlake	 Very limited	1	 Very limited	i	 Very limited	i
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Seepage	1.00	Seepage	1.00	Seepage	1.00
	Too sandy	0.50	 		Too sandy	0.50
399B:	 		 		 	
Grayling	Very limited	į	Very limited	į	Very limited	į
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00			Seepage	1.00
399C:	 		 		 	
Grayling	 Very limited	İ	 Very limited	İ	 Very limited	İ
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00	Slope	0.04		1.00
	Slope	0.04	 		Slope	0.04
399D:	 	i	 			
Grayling	Very limited	İ	Very limited	į	Very limited	İ
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00	Slope	1.00	Seepage	1.00
	Slope	1.00			Slope	1.00
406A:	 		 		 	
Loxley	 Very limited	i	 Very limited	i	Very limited	i
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Content of	1.00	Seepage	1.00	!	1.00
	organic matter		Ponding	1.00		
	Seepage Ponding	1.00	 		Ponding Seepage	1.00
				i	beepage	
407A:	İ	į	İ	į		į
Seelyeville	: -		Very limited		Very limited	
	Depth to	1.00		1.00		1.00
	saturated zone Content of	1.00	saturated zone Seepage	1.00	saturated zone Content of	1.00
	organic matter	1	Ponding	1.00		1
	Seepage	1.00			Ponding	1.00
	Ponding	1.00	İ	į	Seepage	0.16
Manhan	 		 		 	
Markey	Very limited Depth to	1.00	Very limited Depth to	1.00	Very limited Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00	Ponding	1.00	Seepage	1.00
	Ponding	1.00		ļ	Ponding	1.00
410A:	 		 		 	1
Seelyeville	 Verv limited		 Very limited		 Very limited	1
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone	į	saturated zone	İ	saturated zone	İ
	Content of	1.00	Seepage	1.00	Content of	1.00
	organic matter		Ponding	1.00		1
	Seepage Ponding	1.00 1.00			Ponding Seepage	1.00
	PODGIDG			1		

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	У	Area sanitary		Daily cover fo	r
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
410A: Cathro	Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Seepage Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Ponding	 1.00 1.00
419A: Seelyeville	Very limited Depth to saturated zone Content of organic matter Seepage Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Seepage Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Content of organic matter Ponding Seepage	 1.00 1.00 1.00 0.16
Cathro	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Seepage Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00
Markey	 Very limited Depth to saturated zone Seepage Too sandy Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Seepage Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Too sandy Seepage Ponding	 1.00 1.00 1.00
421A: Dora	Very limited Depth to saturated zone Content of organic matter Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Seepage Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Content of organic matter Ponding Seepage	 1.00 1.00 1.00 0.16
Markey	 Very limited Depth to saturated zone Seepage Too sandy Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Seepage Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Too sandy Seepage Ponding	 1.00 1.00 1.00
Seelyeville	Very limited Depth to saturated zone Content of organic matter Seepage Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Seepage Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Content of organic matter Ponding Seepage	 1.00 1.00 1.00 0.16
422A: Seelyeville	 Very limited Depth to saturated zone Content of organic matter Seepage Ponding	 1.00 1.00 1.00 1.00	 Very limited Depth to saturated zone Seepage Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Content of organic matter Ponding Seepage	 1.00 1.00 1.00 0.16

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	У	Area sanitary landfill		Daily cover fo	or
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
422A:	 		 		 	
Cathro	Depth to	1.00		1.00		1.00
	saturated zone Ponding	1.00	saturated zone Seepage Ponding	 1.00 1.00		1.00
Rondeau	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	 1.00
	Content of organic matter Ponding	1.00	Seepage Ponding	1.00	Content of	1.00
426B:	 		 		Seepage	0.16
Emmert	 Very limited Seepage Too sandy 	 1.00 1.00	 Very limited Seepage 	 1.00 	 Very limited Too sandy Seepage Gravel content	 1.00 1.00 1.00
Mahtomedi	 Very limited Seepage Too sandy 	 1.00 1.00	 Very limited Seepage 	 1.00 	 Very limited Too sandy Seepage Gravel content	 1.00 1.00 0.01
Menahga	 Very limited Seepage Too sandy	 1.00 1.00	 Very limited Seepage	 1.00	 Very limited Too sandy Seepage	1.00
426C: Emmert	 Very limited Seepage Too sandy Slope	 1.00 1.00 0.04	 Very limited Seepage Slope	 1.00 0.04		 1.00 1.00 1.00
Mahtomedi	 Very limited Seepage Too sandy Slope	 1.00 1.00 0.04	 Very limited Seepage Slope	 1.00 0.04		0.04 1.00 1.00 0.04
Menahga	 Very limited Seepage Too sandy Slope	 1.00 1.00 0.04	 Very limited Seepage Slope	 1.00 0.04	Gravel content Very limited Too sandy Seepage Slope	0.01 1.00 1.00 0.04
426D: Emmert	Seepage Too sandy	 1.00 1.00	 Very limited Seepage Slope	 1.00 1.00	Seepage	1.00
Mahtomedi	Slope Very limited Seepage	1.00 1.00	 Very limited Seepage	 1.00	Gravel content Slope Very limited Too sandy	1.00 1.00 1.00
	Too sandy Slope 	1.00 1.00 	Slope 	1.00	Seepage Slope Gravel content 	1.00 1.00 0.01

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
426D:						
Menahga	 Verv limited		 Very limited		 Very limited	1
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00	Slope	1.00	Seepage	1.00
	Slope	1.00		į	Slope	1.00
430A:			 		 	
Freya	Very limited		Very limited		Very limited	
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	!
	Too sandy	1.00	Seepage 	1.00	Too sandy Seepage	1.00
439B: Graycalm	 		 		 	
Graycalm	-	:	Very limited	1.00	Very limited Too sandy	1.00
	Seepage Too sandy	1.00 1.00	Seepage	11.00	Too sandy Seepage	1.00
	100 sandy		 		Beepage	
Menahga	Very limited	j	Very limited	j	Very limited	į
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00	l		Seepage	1.00
439C:					 	
Graycalm	Very limited		Very limited		Very limited	
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00	Slope	0.04	Seepage	1.00
	Slope	0.04	 		Slope 	0.04
Menahga	 Very limited	i	 Very limited		 Very limited	
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00	Slope	0.04	Seepage	1.00
	Slope	0.04			Slope 	0.04
439D:						
Graycalm	Very limited		Very limited		Very limited	
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00	Slope	1.00	Seepage	1.00
	Slope	1.00	 		Slope 	1.00
Menahga	-		Very limited		Very limited	į
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy Slope	1.00 1.00	Slope 	1.00	Seepage Slope	1.00
	į -	į		į	_	į
442C: Haugen	 Very limited	1	 Somewhat limited		 Somewhat limited	
. 3	Depth to	0.99	Depth to	0.75	Depth to	0.86
	saturated zone	İ	saturated zone	j	saturated zone	i
	į	į	 -	į	Gravel content	0.01
Greenwood	 Very limited		 Very limited		 Very limited	
	Depth to	1.00		1.00	Depth to	1.00
	saturated zone		saturated zone		saturated zone	
	Content of	1.00	Seepage	1.00	Content of	1.00
	organic matter		Ponding	1.00	organic matter	
	Seepage	1.00			Ponding	1.00
	Ponding	1.00	I	1	Seepage	0.22

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	У	 Area sanitar landfill 	У	Daily cover fo	Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
443D:	1		 		 		
	 Very limited Slope	1.00	 Very limited Slope	1.00	 Very limited Slope Gravel content	1.00	
Greenwood	Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	 Very limited Depth to saturated zone	1.00	
	Content of organic matter Seepage Ponding	1.00 1.00 1.00	Seepage Ponding 	1.00 1.00 	!	1.00 1.00 0.22	
				İ			
459A: Loxley	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	 1.00	saturated zone	 1.00	
	Content of organic matter Seepage Ponding	1.00 1.00 1.00	Seepage Ponding 	1.00 1.00 	Content of organic matter Ponding Seepage	1.00 1.00 0.16	
Daisybay	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	 1.00	saturated zone	 1.00	
	Too clayey Ponding 	1.00 1.00 	Seepage Ponding 	1.00 1.00 	Too clayey Hard to compact Ponding	1.00 1.00 1.00	
Dawson	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone		
	Seepage Content of organic matter Ponding	1.00 1.00 1.00	Seepage Ponding 	1.00 1.00 	!	1.00 1.00 0.16	
461A:							
Bowstring	 Very limited Flooding	1.00	 Very limited Flooding	1.00	 Very limited Depth to	1.00	
	Depth to saturated zone Content of	1.00 1.00	Depth to saturated zone Seepage	1.00 1.00	saturated zone Content of organic matter	1.00	
	organic matter Seepage Ponding	 1.00 1.00	Ponding	1.00		1.00	
465A:				İ			
Newson	Very limited Depth to saturated zone Seepage Too sandy	 1.00 1.00	Very limited Depth to saturated zone Seepage Ponding	 1.00 1.00	saturated zone Too sandy	 1.00 1.00	
	Ponding	1.00			Ponding	1.00	
Meehan	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	
	Seepage Too sandy 	1.00 1.00 	Seepage 	1.00	Too sandy Seepage 	1.00 1.00 	

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	У	Area sanitary		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
469E: Bigisland	 Very limited Slope Too sandy Content of large stones	1.00	 Very limited Slope Seepage 	 1.00 1.00 	:	 1.00 1.00 1.00 0.66 0.61
Milaca	 Very limited Slope Depth to saturated zone	 1.00 0.99	:	 1.00 0.75	:	 1.00 0.86
471B: Dairyland	 Very limited Depth to saturated zone Content of large stones Too sandy	0.99	 Very limited Seepage Depth to saturated zone	 1.00 0.75 	Depth to saturated zone	 1.00 0.86 0.66 0.59
Emmert	 Very limited Seepage Too sandy	 1.00 1.00 	 Very limited Seepage 	 1.00 	 Very limited Too sandy Seepage Gravel content	 1.00 1.00 1.00
471C: Dairyland	 Very limited Depth to saturated zone Content of large stones Too sandy Slope	0.99	 Very limited Seepage Depth to saturated zone Slope	 1.00 0.75 0.37	Depth to saturated zone	 1.00 0.86 0.66 0.59
Emmert	Very limited Seepage Too sandy Slope 	 1.00 1.00 0.37 	Very limited Seepage Slope 	 1.00 0.37 	Very limited Too sandy Seepage Gravel content Slope	 1.00 1.00 1.00 0.37
472A: Rockmarsh	 Very limited Flooding Depth to saturated zone Content of large stones	 1.00 1.00 0.88	 Very limited Flooding Depth to saturated zone Seepage	 1.00 1.00 1.00 	: -	 1.00 0.88 0.52 0.17

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	У	Area sanitary landfill	7	Daily cover fo	or
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
472A:	 		 		 	
	 Very limited		 Very limited	1	 Very limited	1
	Flooding	1.00	Flooding	1.00	Depth to	1.00
	Depth to	1.00	Depth to	1.00	saturated zone	
	saturated zone		saturated zone		Seepage	1.00
	Seepage	1.00	 		Gravel content	0.75
	Too sandy Content of large	0.50	 	l I	Too sandy Content of large	0.50
	stones				stones	
473A:	 		 		 	
Dairyland	: -	1	Very limited		Very limited	1
	Depth to	0.99	Seepage	1.00		1.00
	saturated zone		Depth to saturated zone	0.75	Depth to saturated zone	0.86
	Content of large stones	0.59	saturated zone		Gravel content	0.66
	Too sandy	0.50	! 	1	Content of large	1
	İ	i		i	stones	i
	 		 		Too sandy	0.50
Skog	 Very limited	i	 Very limited	i	 Very limited	i
	Depth to	1.00	Depth to	1.00	Too sandy	1.00
	saturated zone	[saturated zone	1	Seepage	1.00
	Seepage	1.00	Seepage	1.00		1.00
	Too sandy Flooding	1.00 0.40	Flooding 	0.40	Depth to saturated zone	0.47
484A:	 		 		 	
Greenwood	 Very limited	i	 Very limited	i	 Very limited	i
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone	1	saturated zone		saturated zone	1
	Content of	1.00	Seepage	1.00	!	1.00
	organic matter	1.00	Ponding	1.00	organic matter Ponding	1.00
	Seepage Ponding	1.00	 	1	Seepage	0.22
Beseman	 Very limited		 Very limited		 Very limited	
Dependii	Depth to	1.00	:	1.00		1.00
	saturated zone	i	saturated zone	i	saturated zone	i
	Content of	1.00	Seepage	1.00	Content of	1.00
	organic matter		Ponding	1.00		
	Ponding 	1.00	 		Ponding Seepage	1.00
485C:	 		[[
Lupton	Very limited	į	 Very limited	i	 Very limited	į
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone	!	saturated zone		saturated zone	1
	Content of	1.00	Seepage	1.00	Content of	1.00
	organic matter Seepage	 1.00	[organic matter Seepage	0.16
Tawas	 Very limited		 Very limited		 Very limited	
	Depth to	1.00		1.00		1.00
	saturated zone	İ	saturated zone	İ	saturated zone	İ
	Seepage	1.00	Seepage	1.00		1.00
	Too sandy	1.00	Ponding	1.00		1.00
	Ponding	1.00	l		Ponding	1.00

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitary		Area sanitary		Daily cover for landfill	
	Rating class and limiting features		Rating class and limiting features	Value	Rating class and limiting features	Value
495B: Karlsborg	Depth to saturated zone Seepage	 1.00 1.00	 Very limited Seepage Depth to saturated zone	 1.00 0.99	Seepage Too clayey	 1.00 1.00 1.00
Grettum	Too sandy Very limited Depth to saturated zone Seepage Too sandy	1.00 1.00 1.00	 	 1.00 1.00	Depth to saturated zone Very limited Too sandy Seepage	0.99 1.00 1.00
Perida	Very limited Seepage Too sandy Depth to saturated zone	 1.00 1.00 0.09	 Very limited Seepage 	 1.00 	 Very limited Too sandy Seepage 	 1.00 1.00
495C:	 		 		 	
Karlsborg	 Very limited Depth to saturated zone Seepage Too sandy Slope	 1.00 1.00 1.00 0.04	Very limited Seepage Depth to saturated zone Slope	 1.00 0.99 0.04	Seepage Too clayey	 1.00 1.00 1.00 0.99
Grettum	Very limited Depth to saturated zone Seepage Too sandy Slope	 1.00 1.00 1.00 0.04	 Very limited Depth to saturated zone Seepage Slope	 1.00 1.00 0.04	Seepage Slope	 1.00 1.00 0.04
Perida	 Very limited Seepage Too sandy Depth to saturated zone Slope	 1.00 1.00 0.09 0.04	 Very limited Seepage Slope 	 1.00 0.04 		 1.00 1.00 0.04
495D: Karlsborg	 Very limited Depth to saturated zone Seepage Too sandy Slope	 1.00 1.00 1.00 1.00	 Very limited Seepage Slope Depth to saturated zone	 1.00 1.00 0.99 	Very limited Too sandy Seepage Too clayey Slope Depth to saturated zone	 1.00 1.00 1.00 1.00 0.99
Grettum	 Very limited Depth to saturated zone Seepage Too sandy Slope	 1.00 1.00 1.00 	 Very limited Depth to saturated zone Seepage Slope	 1.00 1.00 1.00	 Very limited Too sandy Slope Seepage 	 1.00 1.00 1.00

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitary landfill		Area sanitary landfill		Daily cover for landfill	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>
495D:	 		 		 	
Perida	 Verv limited	i	 Very limited	i	 Very limited	
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00		1.00		1.00
	Slope	1.00	<u> </u>	i	Slope	1.00
	Depth to	0.09		į	İ	İ
	saturated zone					
40CD						
496B: Karlsborg	 Very limited		 Very limited	l I	 Very limited	
Rullbbolg	Depth to	1.00	-	1.00	:	1.00
	saturated zone		Depth to	0.99	-	1.00
	Seepage	1.00	saturated zone	1	Too clayey	1.00
	Too sandy	1.00		i	Depth to	0.99
	İ	İ			saturated zone	
496C:	 		l			
Karlsborg	 Verv limited		 Very limited		 Very limited	
	Depth to	1.00	-	1.00		1.00
	saturated zone	i	Depth to	0.99	Seepage	1.00
	Seepage	1.00	saturated zone	i	Too clayey	1.00
	Too sandy	1.00	Slope	0.04	Depth to	0.99
	Slope	0.04			saturated zone	
					Slope	0.04
496D:	 		 		 	
Karlsborg	 Very limited	İ	 Very limited	İ	 Very limited	i
	Depth to	1.00	Seepage	1.00	Too sandy	1.00
	saturated zone		Slope	1.00	Seepage	1.00
	Seepage	1.00	Depth to	0.99	Too clayey	1.00
	Too sandy	1.00	saturated zone		Slope	1.00
	Slope	1.00		ļ	Depth to	0.99
	 	l I	 		saturated zone	
497A:		İ		İ		
Meenon			Very limited		Very limited	
	Depth to	1.00		1.00		1.00
	saturated zone	1.00	saturated zone	1.00	saturated zone	1.00
	Seepage Too sandy	1.00	Seepage	1.00	Too sandy Seepage	1.00
	100 Sandy		 		beepage	
521A:	İ	į		j	j	į
Dody	: -		Very limited		Very limited	
	Depth to	1.00		1.00		1.00
	saturated zone		saturated zone		saturated zone	
	Seepage	1.00	Seepage	1.00		1.00
	Too clayey Ponding	1.00	Ponding 	1.00	Hard to compact Ponding	1.00
				1		
523A:		ļ				
Nokasippi	: -		Very limited		Very limited	
	Depth to	1.00	Depth to	1.00		1.00
	saturated zone		saturated zone	1 00	saturated zone	1 00
	Ponding	1.00	Seepage	1.00	Seepage Ponding	1.00
	Too sandy	0.50	Ponding	1.00	Ponding Too sandy	1.00
	I .	1	I	1	100 Danay	10.00

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	У	Area sanitary		Daily cover for	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
529B: Perida	 Very limited Seepage Too sandy Depth to saturated zone	 1.00 1.00 0.09	 Very limited Seepage 	 1.00 	 Very limited Too sandy Seepage 	 1.00 1.00
531A: Stengel	 Very limited Depth to saturated zone Seepage Too sandy	 1.00 1.00 0.50	 Very limited Depth to saturated zone Seepage	 1.00 1.00	 Very limited Depth to saturated zone Seepage Too sandy	 1.00 1.00 0.50
542B: Haugen, very stony	 Very limited Depth to saturated zone	 0.99 	 Somewhat limited Depth to saturated zone	 0.75 	 Somewhat limited Depth to saturated zone Gravel content	0.86
Haugen	 Very limited Depth to saturated zone 	 0.99 	 Somewhat limited Depth to saturated zone	 0.75 		 0.86 0.01
542C: Haugen, very stony	 Very limited Depth to saturated zone Slope	 0.99 0.04	 Somewhat limited Depth to saturated zone Slope	 0.75 0.04	saturated zone	 0.86 0.04 0.01
Haugen	 Very limited Depth to saturated zone Slope	 0.99 0.04		 0.75 0.04	saturated zone	 0.86 0.04 0.01
544F: Menahga	 Very limited Slope Seepage Too sandy	 1.00 1.00 1.00	 Very limited Slope Seepage	 1.00 1.00	:	 1.00 1.00 1.00
Mahtomedi	 Very limited Slope Seepage Too sandy	 1.00 1.00 1.00	 Very limited Slope Seepage 	 1.00 1.00 	 Very limited Slope Too sandy Seepage Gravel content	 1.00 1.00 1.00 0.01
553B: Branstad	 Very limited Depth to saturated zone	 1.00 	Very limited Depth to saturated zone	 1.00 	 Somewhat limited Depth to saturated zone	 0.86
553C: Branstad	 Very limited Depth to saturated zone Slope	 1.00 0.04	 Very limited Depth to saturated zone Slope	 1.00 0.04	 Somewhat limited Depth to saturated zone Slope	 0.86 0.04

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitary		Area sanitary		Daily cover for landfill	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	<u>i</u>	limiting features	<u> </u>	limiting features	İ
553D:	l		 	l i	l	
Branstad	 Verv limited		 Very limited	 	 Very limited	
	Depth to	1.00	: -	1.00	: -	1.00
	saturated zone	j	saturated zone	j	Depth to	0.86
	Slope	1.00	Slope	1.00	saturated zone	
555A:	 		 	 	 	l I
Fordum	 Very limited	i	 Very limited	İ	 Very limited	i
	Flooding	1.00	Flooding	1.00	Depth to	1.00
	Depth to	1.00	Depth to	1.00	saturated zone	
	saturated zone		saturated zone		Too sandy	1.00
	Seepage	1.00	Seepage	1.00	Seepage	1.00
	Too sandy	1.00	Ponding	1.00	Ponding	1.00
	Ponding	1.00	 -		 	
557B:		i	 		 	
Shawano	Very limited	i	 Very limited	İ	Very limited	i
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00			Seepage	1.00
557C:	 		 	 	 	
Shawano	 Very limited	1	 Very limited		 Very limited	i
	Seepage	1.00		1.00	: -	1.00
	Too sandy	1.00	Slope	0.04	Seepage	1.00
	Slope	0.04			Slope	0.04
557D:	 		 	 	 	
Shawano	 Very limited	i	 Very limited		 Very limited	i
	Seepage	1.00	: -	1.00	Too sandy	1.00
	Too sandy	1.00	Slope	1.00	Seepage	1.00
	Slope	1.00	!		Slope	1.00
F0C3 :						
586A: Chelmo	 Vorm limited		 Very limited	l I	 Very limited	
CHETINO	Depth to	1.00	: -	1.00	: -	1.00
	saturated zone		saturated zone		saturated zone	
	Seepage	1.00	!	1.00	Too sandy	1.00
	Too sandy	1.00	Ponding	1.00	Seepage	1.00
	Ponding	1.00	!		Ponding	1.00
600A:	 		 	l I	l I	
Haplosaprists	 Not rated	i	 Very limited		 Not rated	ŀ
		i	Ponding	1.00		i
	İ	İ	Depth to	1.00	İ	i
	İ	İ	saturated zone	ĺ	İ	Ì
Psammaquents	 Not mated		 		Not moted	
Psammaquents	Not rated		Very limited	1 00	Not rated	
			Ponding Depth to	1.00	 	1
		i	saturated zone			
	İ	į	İ	į	İ	j
615B:					 	
Cress	-	1 00	Very limited	1 00	Very limited	11 00
	Seepage	1.00	Seepage	1.00	Too sandy Seepage	1.00
	Too sandy	1.00	 		Seepage Gravel content	1.00
	I	1	!	1	JIGTOI COMCEME	0.02

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	У	Area sanitary		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
615C: Cress	 Very limited Seepage Too sandy Slope	 1.00 1.00 0.04	 Very limited Seepage Slope	 1.00 0.04	 Very limited Too sandy Seepage Slope Gravel content	 1.00 1.00 0.04 0.02
615D: Cress	 Very limited Seepage Too sandy Slope	 1.00 1.00 1.00	 Very limited Seepage Slope 	 1.00 1.00 	 Too sandy Seepage Slope Gravel content	 1.00 1.00 1.00 0.02
620C: Lundeen	 Very limited Depth to bedrock	 1.00	 Very limited Depth to bedrock	:	 Very limited Depth to bedrock	1.00
Haustrup	 Very limited Depth to bedrock	!	 Very limited Depth to bedrock	:	 Very limited Depth to bedrock	1.00
Rock outcrop	 Not rated 	 	 Not rated 	 	 Not rated 	
621A: Bjorkland	 Very limited Depth to saturated zone Too clayey Ponding	 1.00 1.00 1.00	 Very limited Depth to saturated zone Seepage Ponding	 1.00 1.00 1.00	Very limited Depth to saturated zone Too clayey Hard to compact Ponding	 1.00 1.00 1.00
623A: Capitola	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00
624A: Ossmer	 Very limited Depth to saturated zone Seepage Too sandy	 1.00 1.00 1.00	 Very limited Depth to saturated zone Seepage	 1.00 1.00	 Very limited Depth to saturated zone Too sandy Seepage	 1.00 1.00 1.00
631A: Giese	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Depth to saturated zone Ponding	1.00
632A: Aftad	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Somewhat limited Depth to saturated zone	 0.86
632B: Aftad	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Somewhat limited Depth to saturated zone	 0.86

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	У	Area sanitary		Daily cover fo	r
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features		limiting features	<u> </u>
632C:	 		 		 	1
Aftad	 Very limited	i	 Very limited		 Somewhat limited	ì
	Depth to	1.00	Depth to	1.00	Depth to	0.86
	saturated zone		saturated zone		saturated zone	
	Slope	0.04	Slope	0.04	Slope	0.04
634C:	 		 			
Drylanding	 Very limited	İ	 Very limited	İ	 Very limited	i
	Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
	Content of large	0.39			Content of large	0.39
	stones				stones	
Beartree	 Very limited	İ	 Very limited	l İ	 Very limited	
	Depth to	1.00	-	1.00	· -	1.00
	saturated zone	ĺ	saturated zone		Depth to	1.00
	Depth to bedrock	1.00	Depth to bedrock	1.00	saturated zone	
	Content of large	1.00	Ponding	1.00		1.00
	stones Ponding	1.00	 	l I	stones Ponding	1.00
					Ionaing	
Rock outcrop	Not rated		Not rated		Not rated	1
635C:	 		 	 	 	
Drylanding	 Very limited	i	 Very limited	İ	 Very limited	i
	Depth to bedrock	1.00	Depth to bedrock	1.00	Depth to bedrock	1.00
	Flooding	0.40	Flooding	0.40	Content of large	0.39
			l		stones	
	Content of large stones	0.39	 		 	
Beartree	 Very limited		 Very limited	 	 Very limited	
	Depth to	1.00	Depth to	1.00	Depth to bedrock	1.00
	saturated zone		saturated zone		Depth to	1.00
	Depth to bedrock	1	Depth to bedrock	:	!	
	Content of large	1.00	Ponding	1.00		1.00
	stones Ponding	1.00	Flooding	0.40	Ponding	1.00
	Flooding	0.40	 		ronaring	
Rock outcrop	 Not rated		Not rated	i I	Not rated	İ
	į			į		İ
648B: Sconsin	 Very limited		 Very limited		 Very limited	1
bconsin	Depth to	1.00	Seepage	1.00	Depth to	0.99
	saturated zone		Depth to	0.99	saturated zone	
	Seepage	1.00	saturated zone	į		į
669D:	 		[
Fremstadt, stony	 Very limited		 Very limited		 Very limited	
-	Slope	1.00	Slope	1.00	Slope	1.00
	Seepage	1.00	Seepage	1.00	Seepage	1.00
	Too sandy	0.50	 		Too sandy	0.50
Pomroy	 Very limited		 Very limited	 	 Very limited	1
-	Slope	1.00	Slope	1.00	Slope	1.00
	Depth to	0.99	Seepage	1.00	Seepage	1.00
	saturated zone		Depth to	0.75	Depth to	0.86
	Too sandy	0.50	saturated zone		saturated zone	
	I	1	l	1	Too sandy	0.50

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	Y	Area sanitary		Daily cover fo	or
	Rating class and	Value	Rating class and	Value	Rating class and limiting features	Value
	limiting features	<u> </u>	limiting features	<u> </u>	limiting reacures	<u> </u>
671B:		i		i		i
Spoonerhill, stony	Very limited		Very limited		Somewhat limited	
	Depth to	0.99	Seepage	1.00	Depth to	0.86
	saturated zone		Depth to	0.75	saturated zone	!
	Too sandy	0.50	saturated zone		Too sandy	0.50
Spoonerhill	 Very limited	 	 Very limited	 	 Somewhat limited	
Spoonermili	Depth to	0.99	Seepage	1.00	Depth to	0.86
	saturated zone		Depth to	0.75	saturated zone	
	Too sandy	0.50	saturated zone		Too sandy	0.50
		į		į	į	İ
706A:						
Winterfield	-		Very limited		Very limited	
	Flooding	1.00	Flooding	1.00	Depth to	1.00
	Depth to	1.00	Depth to	1.00	saturated zone	11 00
	saturated zone Seepage	1.00	saturated zone Seepage	1.00	Too sandy Seepage	1.00
	Too sandy	1.00	Beepage	1	seepage 	1
					 	i
Totagatic	 Very limited	i	 Very limited	i	 Very limited	i
	Flooding	1.00	Flooding	1.00	Depth to	1.00
	Depth to	1.00	Depth to	1.00	saturated zone	
	saturated zone		saturated zone		Too sandy	1.00
	Seepage	1.00	Seepage	1.00	Seepage	1.00
	Too sandy	1.00	Ponding	1.00	Ponding	1.00
	Ponding	1.00			 	
715A:		 		 	 	
Mora	 Very limited	i	 Very limited	i	 Very limited	i
	Depth to	1.00	Depth to	1.00	Depth to	1.00
	saturated zone	į	saturated zone	į	saturated zone	İ
						!
717B:						ļ
Milaca	Very limited	!	Somewhat limited		Somewhat limited	
	Depth to saturated zone	0.99	Depth to saturated zone	0.75	Depth to saturated zone	0.86
	sacuraced zone	 	saturated zone	 	Sacuraced Zone	i
717C:					 	i
Milaca	 Very limited	i	Somewhat limited	i	Somewhat limited	i
	Depth to	0.99	Depth to	0.75	Depth to	0.86
	saturated zone		saturated zone		saturated zone	
	Slope	0.04	Slope	0.04	Slope	0.04
720F:	 		 		 -	
Haustrup	 Very limited	 	 Very limited	 	 Very limited	
nauscrup	Depth to bedrock					1.00
	Slope	1.00	Slope	1.00	Slope	1.00
		į		į		į
Lundeen	Very limited		Very limited		Very limited	
	Depth to bedrock	:	-	!	Depth to bedrock	1.00
	Slope	1.00	Slope	1.00	Slope	1.00
Pock outgrop	Not rated	 	 Not rated	 	 Not rated	
Rock outcrop	HOU Tateu		HOU Tated		HOC IACEU	1
726B:		i		i	 	i
Sissabagama	Very limited	i	 Very limited	i	Somewhat limited	i
-	Depth to	1.00	Depth to	1.00	Depth to	0.47
	рерси со	1.00	Depth to	1.00	Debru co	0.17
	saturated zone		saturated zone		saturated zone	

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	У	Area sanitary		Daily cover fo	r
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
742B: Milaca	Very limited Depth to saturated zone	 0.99	 Somewhat limited Depth to saturated zone	 0.75	 Somewhat limited Depth to saturated zone	 0.86
742C: Milaca	Very limited Depth to saturated zone Slope	 0.99 0.04	 Somewhat limited Depth to saturated zone Slope	 0.75 0.04	saturated zone	0.86
742D: Milaca	 Very limited Slope Depth to saturated zone	 1.00 0.99	 Very limited Slope Depth to saturated zone	 1.00 0.75	:	 1.00 0.86
755A: Moppet	 Very limited Flooding Depth to saturated zone Seepage	 1.00 1.00 1.00	 Very limited Flooding Depth to saturated zone Seepage	 1.00 1.00 1.00		
Fordum	 Very limited Flooding Depth to saturated zone Seepage Too sandy Ponding	 1.00 1.00 1.00 1.00	 Very limited Flooding Depth to saturated zone Seepage Ponding	 1.00 1.00 1.00 1.00	saturated zone Too sandy Seepage	 1.00 1.00 1.00 1.00
771A: Lenroot	 Very limited Depth to saturated zone Seepage Too sandy	 1.00 1.00 1.00	Very limited Depth to saturated zone Seepage	 1.00 1.00	Very limited Too sandy Seepage Depth to saturated zone Gravel content	 1.00 1.00 0.86 0.05
812B: Mora	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	1.00
825A: Meehan	 Very limited Depth to saturated zone Seepage Too sandy	 1.00 1.00 1.00	 Very limited Depth to saturated zone Seepage 	 1.00 1.00	saturated zone	 1.00 1.00 1.00
896A: Wurtsmith	 Very limited Depth to saturated zone Seepage Too sandy	 1.00 1.00 1.00	 Very limited Depth to saturated zone Seepage 	 1.00 1.00 	 Very limited Too sandy Seepage Depth to saturated zone	 1.00 1.00 0.86

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	У	Area sanitary landfill		Daily cover fo		
	Rating class and	Value	Rating class and	Value	Rating class and	Value	
	limiting features	<u> </u>	limiting features	İ .	limiting features	<u> </u>	
980A:	 		 		 		
	 Very limited		 Very limited		 Very limited		
	Depth to	1.00	Depth to	1.00	Depth to	1.00	
	saturated zone	İ	saturated zone	İ	saturated zone	İ	
	Depth to bedrock	1.00	Seepage	1.00	Too sandy	1.00	
	Seepage	1.00	Depth to bedrock	0.42	Seepage	1.00	
	Too sandy	1.00	Flooding	0.40	Gravel content	0.43	
	Flooding	0.40	 		Depth to bedrock	0.42	
1070C:					 		
Fremstadt	Very limited	i	Very limited	İ	Very limited	i	
	Seepage	1.00	Seepage	1.00	Seepage	1.00	
	Too sandy	0.50	Slope	0.16	Too sandy	0.50	
	Slope	0.16			Slope	0.16	
Cress	 Very limited	 	 Very limited		 Very limited	 	
	Seepage	1.00	Seepage	1.00	Too sandy	1.00	
	Too sandy	1.00	Slope	0.04	Seepage	1.00	
	Slope	0.04			Slope	0.04	
	į	İ		İ	Gravel content	0.02	
1070D:	l				 		
	 Very limited		 Very limited	 	 Very limited	l I	
	Slope	1.00	Slope	1.00	Slope	1.00	
	Seepage	1.00	Seepage	1.00	Seepage	1.00	
	Too sandy	0.50		İ	Too sandy	0.50	
Cress	 Very limited		 Voru limited		 Vorus limited		
Cless	Seepage	1.00	Very limited Seepage	1.00	Very limited Too sandy	1.00	
	Too sandy	1.00	Slope	1.00	Seepage	1.00	
	Slope	1.00	biope	1	Slope	1.00	
					Gravel content	0.02	
1080B: Spoonerhill	 Very limited		 Very limited		 Somewhat limited		
bpoonermiii	Depth to	0.99	Seepage	1.00	Depth to	0.86	
	saturated zone	0.55	Depth to	0.75	saturated zone	0.00	
	Too sandy	0.50	saturated zone		Too sandy	0.50	
Spoonerhill, stony	-	:	Very limited	1 00	Somewhat limited	10.00	
	Depth to saturated zone	0.99	Seepage Depth to	1.00 0.75	Depth to saturated zone	0.86	
	Too sandy	0.50	-	0.75	Too sandy	0.50	
	100 sandy		sacuraced zone		100 sandy 		
Cress	Very limited	į	Very limited	İ	Very limited	İ	
	Seepage	1.00	Seepage	1.00	Too sandy	1.00	
	Too sandy	1.00			Seepage	1.00	
					Gravel content	0.02	
2002:	 	 	 		 		
Udorthents, earthen		i		İ	İ	i	
dams	Not rated	i	Not rated	İ	Not rated	i	
	İ	İ		į	İ	j	
2015:	 		 		 	ļ	
Pits	Not rated		Not rated		Not rated		
2050:	 		[! 		
Landfill	Not rated	į	Not rated	j	Not rated	İ	
	· I	i e	I	i		1	

Table 18b.--Sanitary Facilities--Continued

Map symbol Trench sanitary and soil name landfill		У	Area sanitary		Daily cover for landfill	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3011A: Barronett		 1.00 1.00	 Very limited Depth to saturated zone	 1.00 1.00	 Very limited	 1.00 1.00
	Foliating		Foliating		Foliating	
3082E: Braham	 Very limited Slope	 1.00	 Very limited Seepage Slope	 - 1.00 1.00	 Very limited Slope 	1.00
Shawano	 Very limited Seepage Too sandy Slope	 1.00 1.00 1.00	 Very limited Seepage Slope	 1.00 1.00	 Too sandy Seepage Slope	 1.00 1.00 1.00
3114A:	 		 			
Saprists	Not rated 	 	Very limited	 1.00 1.00 1.00	 Not rated 	
Aquents	 Not rated 	 	saturated zone	 1.00 1.00 1.00	 Not rated 	
Aquepts	 Not rated 	 	 Very limited Ponding Depth to saturated zone Seepage	 1.00 1.00 1.00	 Not rated 	
3125A: Meehan	Very limited Depth to saturated zone Seepage Too sandy	 1.00 1.00 1.00	saturated zone	 1.00 1.00	 Very limited Depth to saturated zone Too sandy Seepage	 1.00 1.00 1.00
3126A: Wurtsmith	 Very limited Depth to saturated zone Seepage Too sandy	 1.00 1.00	 Very limited Depth to saturated zone Seepage	 1.00 1.00	 Very limited Too sandy Seepage Depth to saturated zone	 1.00 1.00 0.86
3312B: Glendenning, very stony	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	 1.00	 Very limited Depth to saturated zone	
Glendenning	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone	1.00

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	У	Area sanitary landfill		Daily cover for landfill		
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
3336A:	 		l	l I	 		
Fenander	Depth to	1.00	 Very limited Depth to	1.00	 Very limited Depth to	1.00	
	saturated zone Ponding	1.00	saturated zone Ponding	1.00	saturated zone Ponding	1.00	
3403A: Loxley	 Very limited		 Very limited		 Very limited		
	Depth to	1.00	Depth to	1.00	Depth to	1.00	
	saturated zone	İ	saturated zone	İ	saturated zone	i	
	Content of	1.00	Seepage	1.00	Content of	1.00	
	organic matter	İ	Ponding	1.00	organic matter	İ	
	Seepage	1.00		İ	Ponding	1.00	
	Ponding	1.00			Seepage	0.16	
Beseman	 Very limited		 Very limited		 Very limited		
	Depth to	1.00	Depth to	1.00	Depth to	1.00	
	saturated zone	i	saturated zone	i	saturated zone	i	
	Content of	1.00	Seepage	1.00	Content of	1.00	
	organic matter	İ	Ponding	1.00	organic matter	ĺ	
	Ponding	1.00			Ponding	1.00	
					Seepage	0.22	
Dawson	 Very limited		 Very limited		 Very limited		
	Depth to	1.00	Depth to	1.00	Depth to	1.00	
	saturated zone	İ	saturated zone	İ	saturated zone	İ	
	Seepage	1.00	Seepage	1.00	Content of	1.00	
	Content of	1.00	Ponding	1.00	organic matter	ĺ	
	organic matter				Ponding	1.00	
	Ponding	1.00			Seepage	0.16	
3429B:	 		 		 		
Lara	Very limited	į	Very limited	į	Very limited	į	
	Depth to	1.00	Depth to	1.00	Too sandy	1.00	
	saturated zone		saturated zone		Seepage	1.00	
	Too sandy	1.00	Seepage	1.00	Depth to	0.99	
			 		saturated zone		
3429C:			 		 		
Lara	Very limited		Very limited		Very limited		
	Depth to	1.00	Depth to	1.00	Too sandy	1.00	
	saturated zone		saturated zone		Seepage	1.00	
	Too sandy	1.00	Seepage	1.00	Depth to	0.99	
	Slope	0.04	Slope	0.04	saturated zone		
	 		 		Slope 	0.04	
3446A:						ĺ	
Newson	Very limited		Very limited		Very limited		
	Depth to	1.00	Depth to	1.00	Depth to	1.00	
	saturated zone		saturated zone		saturated zone	1	
	Seepage	1.00	Seepage	1.00	Too sandy	1.00	
	Too sandy	1.00	Ponding	1.00	Seepage	1.00	
	Ponding 	1.00	[Ponding 	1.00	
3448B:	į	į		į		į	
Grettum	Very limited		Very limited		Very limited	1	
	Depth to	1.00	Depth to	1.00	Too sandy	1.00	
	saturated zone		saturated zone		Seepage	1.00	
	Seepage	1.00	Seepage	1.00	 	1	
	Too sandy	1.00	1	1	I	1	

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar	У	Area sanitary		Daily cover fo	or
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3448C: Grettum	Very limited Depth to saturated zone Seepage Too sandy Slope	 1.00 1.00 1.00 0.04	Very limited Depth to saturated zone Seepage Slope	 1.00 1.00 0.04	Seepage Slope	 1.00 1.00 0.04
3510B: Pomroy	 Very limited Depth to saturated zone Too sandy	 0.99 0.50	 Very limited Seepage Depth to saturated zone	 1.00 0.75		 1.00 0.86 0.50
Fremstadt	 Very limited Seepage Too sandy	 1.00 0.50	 Very limited Seepage 	 1.00	 Very limited Seepage Too sandy	 1.00 0.50
Fremstadt, stony	 Very limited Seepage Too sandy	 1.00 0.50	 Very limited Seepage 	1.00	 Very limited Seepage Too sandy	1.00
3510C: Pomroy	 Very limited Depth to saturated zone Too sandy Slope	 0.99 0.50 0.16	 Very limited Seepage Depth to saturated zone Slope	 1.00 0.75 0.16	Depth to saturated zone	 1.00 0.86 0.50 0.16
Fremstadt	 Very limited Seepage Too sandy Slope	 1.00 0.50 0.16		 1.00 0.16		 1.00 0.50 0.16
Fremstadt, stony	 Very limited Seepage Too sandy Slope	 1.00 0.50 0.16	 Very limited Seepage Slope 	 1.00 0.16		 1.00 0.50 0.16
3511A: Bushville	 Very limited Depth to saturated zone 	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 1.00	 Very limited Depth to saturated zone	 1.00
3516A: Slimlake	 Very limited Depth to saturated zone Seepage Too sandy	 1.00 1.00 1.00	 Very limited Depth to saturated zone Seepage	 1.00 1.00	 Very limited Too sandy Seepage Depth to saturated zone	 1.00 1.00 0.47
3625A: Lino	 Very limited Depth to saturated zone Seepage Too sandy	 1.00 1.00 1.00	 Very limited Depth to saturated zone Seepage	 1.00 1.00	 Very limited Depth to saturated zone Too sandy Seepage	 1.00 1.00 1.00

Table 18b.--Sanitary Facilities--Continued

Map symbol and soil name	Trench sanitar landfill	У	Area sanitary		Daily cover for landfill	
	Rating class and	Value		Value	Rating class and	Valu
	limiting features		limiting features		limiting features	<u> </u>
3626A:]	 	 	
	Very limited	 	 Very limited	 	 Very limited	i
	Depth to	1.00	Depth to	1.00	Too sandy	1.00
	saturated zone		saturated zone		Seepage	1.00
	Seepage	1.00		1.00		0.86
I I	Too sandy	1.00	beepage		saturated zone	1
I I	100 banay				Buttarated Zone	i
3629B:					 	i
Perida	Very limited	İ	 Very limited	İ	 Very limited	i
	Seepage	1.00	Seepage	1.00	Too sandy	1.00
	Too sandy	1.00		İ	Seepage	1.00
	Depth to	0.09		İ	İ	i
i	saturated zone	İ		İ		i
						İ
3636B:						
Plainbo	-	'	Very limited	1	Very limited	
	Depth to bedrock	1		1.00		
ļ	Seepage	1.00	Depth to bedrock	1.00		1.00
	Too sandy	1.00			Seepage	1.00
3636C:					 	
Plainbo	Very limited	İ	 Very limited	İ	 Very limited	i
	Depth to bedrock	1.00	Seepage	1.00	Depth to bedrock	1.00
	Seepage	1.00	Depth to bedrock	1.00	Too sandy	1.00
İ	Too sandy	1.00	Slope	0.04	Seepage	1.00
j	Slope	0.04		į	Slope	0.04
M-W:			 		 	
Miscellaneous water	Not rated		Not rated		Not rated	
 W:		 	 	 	 	
Water	Not rated		Not rated		Not rated	i

Table 19a.--Construction Materials

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

Map symbol and soil name	Potential as so of gravel	ource	Potential as source		
	Rating class	Value	Rating class Val		
3A:	 		 		
Totagatic	 Poor	i	 Fair	-	
	Bottom layer	0.00	Thickest layer	0.44	
	Thickest layer	0.00	Bottom layer	0.64	
Bowstring	 Poor		 Poor		
•	Bottom layer	0.00	Bottom layer	0.00	
	Thickest layer	0.00	Thickest layer	0.00	
Ausable	 Poor	l I	 Fair		
	Bottom layer	0.00	Thickest layer	0.00	
	Thickest layer	0.00	Bottom layer	0.58	
12A:	 		 		
Makwa	1		Fair		
	Bottom layer	0.00		0.00	
	Thickest layer	0.43	Thickest layer	0.08	
22A:		į		į	
Comstock	1		Poor		
	Bottom layer Thickest layer	0.00		0.00	
27A:					
Scott Lake	 Fair		 Fair	-	
	Thickest layer	0.00	1	0.02	
	Bottom layer	0.16	Bottom layer	0.50	
28B:	 		 		
Haugen, very stony	Poor		Fair		
	Bottom layer	0.00		0.02	
	Thickest layer	0.00	Thickest layer	0.04	
Haugen	Poor	i	Fair	İ	
	Bottom layer		Bottom layer	0.02	
	Thickest layer 	0.00	Thickest layer	0.04	
Rosholt, very stony	•		Fair	į	
	Thickest layer		Thickest layer	0.02	
	Bottom layer	0.16	Bottom layer	0.50	
Rosholt	1		Fair	į	
	Thickest layer	0.00		0.02	
	Bottom layer	0.16	Bottom layer	0.50	
28C:		į		į	
Haugen, very stony	•		Fair		
	Bottom layer Thickest layer	0.00		0.02	
	Inickest layer	10.00	Inickest layer	0.04	

Table 19a.--Construction Materials--Continued

Map symbol and soil name	 Potential as so of gravel 	ource	Potential as source of sand		
	Rating class	Value	Rating class	Value	
28C: Haugen	 Poor Bottom layer Thickest layer	0.00	:	0.02	
Rosholt, very stony	 Fair Thickest layer Bottom layer	 0.00 0.16	 Fair Thickest layer Bottom layer	0.02	
Rosholt	 Fair Thickest layer Bottom layer	 0.00 0.16	 Fair Thickest layer Bottom layer	0.02	
38A: Rosholt	 Fair Thickest layer Bottom layer	 0.00 0.16	 Fair Thickest layer Bottom layer	0.02	
38B: Rosholt	 Fair Thickest layer Bottom layer	 0.00 0.16	 Fair Thickest layer Bottom layer	0.02	
38C: Rosholt	 Fair Thickest layer Bottom layer	 0.00 0.16	 Fair Thickest layer Bottom layer	0.02	
38D: Rosholt	 Fair Thickest layer Bottom layer	 0.00 0.16	 Fair Thickest layer Bottom layer	0.02	
42D: Amery	 Poor Thickest layer Bottom layer	 0.00 0.00	 Fair Bottom layer Thickest layer	0.03	
43B: Antigo	 Fair Thickest layer Bottom layer	0.00	 Fair Thickest layer Bottom layer	0.00	
43C: Antigo	 Fair Thickest layer Bottom layer	0.00	 Fair Thickest layer Bottom layer	0.00	
63A: Crystal Lake	 Poor Bottom layer Thickest layer	 0.00 0.00	 Poor Bottom layer Thickest layer	0.00	
63B: Crystal Lake	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00	
63C: Crystal Lake	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00	

Table 19a.--Construction Materials--Continued

Map symbol and soil name	Potential as so of gravel	urce	 Potential as so of sand 	ource
	Rating class	Value	Rating class	Value
64A:	 	l	 	
Totagatic	Poor	i	 Fair	i
	Bottom layer	0.00	Thickest layer	0.44
	Thickest layer	0.00	Bottom layer	0.64
Winterfield	Poor	l	 Fair	
	Thickest layer	0.00	Thickest layer	0.10
	Bottom layer	0.00	Bottom layer	0.64
69C:	l I		 	
Keweenaw	Poor		 Fair	
	Bottom layer	0.00	Bottom layer	0.10
	Thickest layer	0.00	Thickest layer	0.11
Sayner	 Fair	l	 Fair	
•	Thickest layer	0.00	Bottom layer	0.43
	Bottom layer	0.08	Thickest layer	0.72
77:1	 Dane			
Vilas	Poor Bottom layer	0.00	Fair Thickest layer	0.72
	Thickest layer	0.00		0.86
	į	İ		į
69E: Keweenaw	Poor		 Fair	
Keweenaw	Bottom layer	0.00		0.10
	Thickest layer	0.00	:	0.11
_				
Sayner	Fair Thickest layer	0.00	Fair Bottom layer	0.43
	Bottom layer	0.08	:	0.72
	İ	İ	į	j
Vilas	Poor		Fair	
	Bottom layer Thickest layer	0.00	Thickest layer Bottom layer	0.72
82B:				
Cutaway	Poor Bottom layer	0.00	Poor Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
	į	į	į	i
Branstad	!		Poor	
	Bottom layer Thickest layer	0.00	Bottom layer Thickest layer	0.00
	Inickest layer		Inickest layer	
82C:	!	ļ		
Cutaway	:	0.00	Poor Bottom layer	0.00
	Bottom layer Thickest layer	0.00	Thickest layer	0.00
	į	İ	į	į
Branstad	1	- 1	Poor	
	Bottom layer Thickest layer	0.00	Bottom layer Thickest layer	0.00
	Inickest layer	0.00	Inickest layer	0.00
83A:	į	į		į
Smestad	!		Fair	
	Bottom layer Thickest layer	0.00	:	0.00 0.06
85B:				1
Taylor	Poor Bottom layer	0.00	Poor Bottom layer	0.00
	Thickest layer	0.00	Thickest layer	0.00
	į	į	<u> </u>	į

Table 19a.--Construction Materials--Continued

Map symbol and soil name	Potential as so of gravel	ource	Potential as source of sand		
	Rating class	Value	Rating class	Value	
85C: Taylor	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00	
86A: Indus	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00	
Alango	 Poor Bottom layer Thickest layer 	0.00	 Poor Bottom layer Thickest layer 	0.00	
89A: Wildwood	 Poor Bottom layer Thickest layer	 0.00 0.00	 Poor Bottom layer Thickest layer	0.00	
96B: Karlsborg	 Poor Bottom layer Thickest layer	 0.00 0.00	 Fair Thickest layer Bottom layer	 0.00 0.72	
96C: Karlsborg	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.00	
96D: Karlsborg	 Poor Bottom layer Thickest layer	 0.00 0.00	 Fair Thickest layer Bottom layer	0.00	
100B: Menahga	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.34	
100C: Menahga	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.34	
100D: Menahga	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.34	
120B: Kost	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.21	
127D: Amery	 Poor Thickest layer Bottom layer	0.00	 Fair Bottom layer Thickest layer	0.03	
Rosholt	 Fair Thickest layer Bottom layer 	 0.00 0.16	 Fair Thickest layer Bottom layer 	0.02	

Table 19a.--Construction Materials--Continued

Map symbol and soil name	 Potential as so of gravel 	ource	 Potential as so of sand 	Potential as source of sand		
	Rating class	Value	Rating class	Value		
127E: Amery	 Poor Thickest layer Bottom layer	 0.00 0.00	 Fair Bottom layer Thickest layer	0.03		
Rosholt	 Fair Thickest layer Bottom layer	 0.00 0.16		0.02		
151A: Bluffton	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00		
152A: Alstad	 Poor Bottom layer Thickest layer	0.00	:	0.00		
154E: Cushing	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.00		
156B: Magnor, very stony	 Poor Thickest layer Bottom layer	0.00	 Fair Bottom layer Thickest layer	0.00		
Magnor	 Poor Thickest layer Bottom layer	0.00	:	0.00		
157B: Freeon, very stony	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.03		
Freeon	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.03		
157C: Freeon, very stony	 Poor Bottom layer Thickest layer	0.00	:	0.03		
Freeon	 Poor Bottom layer Thickest layer	0.00	:	0.03		
160A: Oesterle	 Fair Thickest layer Bottom layer	0.00	 Fair Thickest layer Bottom layer	0.04		
165B: Elderon	 Poor Bottom layer Thickest layer	0.00	 Poor Thickest layer Bottom layer	0.00		

Table 19a.--Construction Materials--Continued

Map symbol and soil name	Potential as so of gravel	urce	Potential as so of sand	ource
	Rating class	Value	Rating class	Value
185B: Tradelake	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	 0.00 0.72
Taylor	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00
185C: Tradelake	 		 Fair	
Tradelake	Bottom layer Thickest layer	0.00	Thickest layer	0.00
Taylor	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00
185D:				
Tradelake	Poor Bottom layer Thickest layer	0.00	Fair Thickest layer Bottom layer	 0.00 0.72
Taylor	Poor Bottom layer Thickest layer	0.00		0.00
185E: Tradelake	 Poor Bottom layer Thickest layer	0.00	·	 0.00 0.72
Taylor	 Poor Bottom layer Thickest layer	 0.00 0.00	· -	 0.00 0.00
189A: Siren	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00
193A: Minocqua	 Fair Thickest layer Bottom layer	0.00		0.00
337A: Plover	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00
368B: Mahtomedi	 Fair Thickest layer Bottom layer	0.00	 Fair Bottom layer Thickest layer	 0.64 0.64
Cress	 Fair Thickest layer Bottom layer 	 0.00 0.16	 Fair Thickest layer Bottom layer 	 0.08 0.50

Table 19a.--Construction Materials--Continued

Map symbol and soil name	 Potential as sou of gravel 	rce	 Potential as so of sand 	urce
	Rating class	Value	Rating class	Value
368C: Mahtomedi	 Fair Thickest layer Bottom layer	 0.00 0.01	 Fair Bottom layer Thickest layer	 0.64 0.64
Cress	 Fair Thickest layer Bottom layer	0.00	 Fair Thickest layer Bottom layer	0.08
368D: Mahtomedi	 Fair Thickest layer Bottom layer	0.00	 Fair Bottom layer Thickest layer	 0.64 0.64
Cress	 Fair Thickest layer Bottom layer 	 0.00 0.16	-	 0.08 0.50
368E: Mahtomedi	 Fair Thickest layer Bottom layer	0.00	· -	 0.64 0.64
Cress	 Fair Thickest layer Bottom layer	0.00	 Fair Thickest layer Bottom layer	0.08
	 Fair Thickest layer Bottom layer	0.00	Bottom layer	 0.08 0.50
Rosholt	Fair Thickest layer Bottom layer	0.00	Fair Thickest layer Bottom layer	0.02
380C:	 		 	
Cress	Fair Thickest layer Bottom layer 	 0.00 0.16	Fair Thickest layer Bottom layer	 0.08 0.50
Rosholt	 Fair Thickest layer Bottom layer	0.00	Fair Thickest layer Bottom layer	0.02
380D: Cress	 Fair Thickest layer Bottom layer	 0.00 0.16	 Fair Thickest layer Bottom layer	0.08
Rosholt	 Fair Thickest layer Bottom layer	 0.00 0.16	 Fair Thickest layer Bottom layer	 0.02 0.50
383B: Mahtomedi	 Fair Thickest layer Bottom layer	 0.00 0.01	 Fair Thickest layer Bottom layer	 0.64 0.64

Table 19a.--Construction Materials--Continued

Map symbol and soil name	Potential as so of gravel	ource	Potential as so of sand	ource
	Rating class	Value	Rating class	Value
383C: Mahtomedi	 Fair Thickest layer Bottom layer	 0.00 0.01	 Fair Bottom layer Thickest layer	 0.64 0.64
383D: Mahtomedi	 Fair Thickest layer Bottom layer	0.00	 Fair Bottom layer Thickest layer	0.64
392C: Rockmarsh	 Poor Thickest layer Bottom layer	0.00	 Poor Thickest layer Bottom layer	0.00
Dairyland	 Fair Thickest layer Bottom layer	 0.00 0.24	 Fair Thickest layer Bottom layer 	 0.00 0.05
Makwa	Fair Bottom layer Thickest layer	0.00	Fair Bottom layer Thickest layer	0.00
396B: Friendship	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	 0.69 0.86
Wurtsmith	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	 0.56 0.82
Grayling	Poor Bottom layer Thickest layer	0.00	 Thickest layer Bottom layer	0.64
397A: Perchlake	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.44
399B: Grayling	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	 0.64 0.64
399C: Grayling	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.64
399D: Grayling	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.64
406A: Loxley	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00

Table 19a.--Construction Materials--Continued

Map symbol and soil name	Potential as so of gravel	urce	Potential as so of sand	ource
	Rating class	Value	Rating class	Value
407A: Seelyeville	 Poor Bottom layer Thickest layer	 0.00 0.00	 Poor Bottom layer Thickest layer	 0.00 0.00
Markey	 Poor Thickest layer Bottom layer	0.00	 Fair Thickest layer Bottom layer	 0.00 0.64
410A: Seelyeville	 Poor Bottom layer Thickest layer	0.00	· -	0.00
Cathro	 Poor Bottom layer Thickest layer 	 0.00 0.00	· -	0.00
419A: Seelyeville	 Poor Bottom layer Thickest layer	0.00	· -	0.00
Cathro	 Poor Bottom layer Thickest layer 	 0.00 0.00	-	0.00
Markey	 Poor Thickest layer Bottom layer	0.00	-	0.00
421A:	 		 	
Dora	Poor Bottom layer Thickest layer 	0.00	· -	0.00
Markey	 Thickest layer Bottom layer	0.00	· -	0.00
Seelyeville	 Poor Bottom layer Thickest layer	0.00	 Bottom layer Thickest layer	0.00
422A: Seelyeville	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00
Cathro	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.00
Rondeau	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00
426B: Emmert	 Fair Bottom layer Thickest layer 	0.50		 0.61 0.80

Table 19a.--Construction Materials--Continued

Map symbol and soil name	Potential as so of gravel	ource	Potential as so of sand	ource
	Rating class	Value	Rating class	Value
40CD			1	
426B: Mahtomedi	 Fair		 Fair	
Mancomean	Thickest layer	0.00	!	0.64
	Bottom layer	0.01	Thickest layer	0.64
Menahga	Poor	l I	 Fair	
	Bottom layer	0.00	Thickest layer	0.34
	Thickest layer	0.00	Bottom layer	0.64
426C:		İ		
Emmert	!		Fair	
	Bottom layer Thickest layer	0.50	Thickest layer Bottom layer	0.61
	Interest layer		Boccom rayer	
Mahtomedi	1		Fair	
	Thickest layer Bottom layer	0.00	Bottom layer	0.64
	Bottom layer	0.01	Thickest layer	0.64
Menahga	Poor	j	Fair	į
	Bottom layer	0.00		0.34
	Thickest layer	0.00	Bottom layer	0.64
426D:		į		
Emmert	Fair		Fair	
	Bottom layer Thickest layer	0.50	Thickest layer Bottom layer	0.61
	Interest tayer		Boccom rayer	
Mahtomedi	Fair		Fair	į
	Thickest layer	0.00		0.64
	Bottom layer	0.01	Thickest layer	0.64
Menahga	Poor		Fair	j
	Bottom layer	0.00		0.34
	Thickest layer	0.00	Bottom layer	0.64
430A:	į	į		į
Freya	Poor Bottom layer	0.00	Fair Bottom layer	0.00
	Thickest layer	0.00	<u>-</u>	0.20
		ĺ		į
439B: Graycalm	Poor	l I	 Fair	
014,041	Bottom layer	0.00	Bottom layer	0.18
	Thickest layer	0.00	Thickest layer	0.47
Menahga	Poor	l I	 Fair	
	Bottom layer	0.00	Thickest layer	0.34
	Thickest layer	0.00	Bottom layer	0.64
439C:				
Graycalm	!		Fair	
	Bottom layer	0.00	<u>-</u>	0.18
	Thickest layer	0.00	Thickest layer	0.47
Menahga	Poor	į	Fair	į
-				
-	Bottom layer Thickest layer	0.00	Thickest layer Bottom layer	0.34

Table 19a.--Construction Materials--Continued

Map symbol and soil name	 Potential as son of gravel 	ırce	 Potential as so of sand 	urce
	Rating class	Value	Rating class	Value
439D: Graycalm	 Poor Bottom layer Thickest layer	 0.00 0.00	 Fair Bottom layer Thickest layer	 0.18 0.47
Menahga	 Poor Bottom layer Thickest layer	 0.00 0.00	 Fair Thickest layer Bottom layer	 0.34 0.64
442C: Haugen	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.02
Greenwood	 Poor Bottom layer Thickest layer 	 0.00 0.00	 Poor Bottom layer Thickest layer 	 0.00 0.00
443D: Amery	 Poor Thickest layer Bottom layer	0.00	 Fair Bottom layer Thickest layer	0.03
Greenwood	 Poor Bottom layer Thickest layer 	 0.00 0.00	 Poor Bottom layer Thickest layer 	0.00
459A: Loxley	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00
Daisybay	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00
Dawson	 Fair Thickest layer Bottom layer 	 0.00 0.05	 Fair Thickest layer Bottom layer 	 0.00 0.64
461A: Bowstring	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00
465A: Newson	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.82
Meehan	 Poor Bottom layer Thickest layer 	 0.00 0.00	 Fair Thickest layer Bottom layer 	 0.48 0.82
469E: Bigisland	 Fair Thickest layer Bottom layer	0.09	 Fair Thickest layer Bottom layer	0.00

Table 19a.--Construction Materials--Continued

Map symbol and soil name	 Potential as so of gravel 	urce	 Potential as so of sand 	ource
	Rating class	Value	Rating class	Value
469E: Milaca	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.03
471B: Dairyland	 Fair Thickest layer Bottom layer	0.00	 Fair Thickest layer Bottom layer	0.00
Emmert	 Fair Bottom layer Thickest layer	0.50	·	0.61
471C: Dairyland	 Fair Thickest layer Bottom layer	0.00	 Fair Thickest layer Bottom layer	0.00
Emmert	 Fair Bottom layer Thickest layer 	 0.50 0.50	 Fair Thickest layer Bottom layer 	 0.61 0.80
472A: Rockmarsh	 Poor Thickest layer Bottom layer	0.00	 Poor Thickest layer Bottom layer	0.00
Clemens	 Fair Bottom layer Thickest layer	0.09	 Fair Thickest layer Bottom layer	 0.07 0.09
473A: Dairyland	 Fair Thickest layer Bottom layer	0.00	 Fair Thickest layer Bottom layer	0.00
Skog	 Fair Bottom layer Thickest layer 	0.62	 Fair Thickest layer Bottom layer	 0.08 0.66
484A: Greenwood	 Poor Bottom layer Thickest layer	0.00	· -	0.00
Beseman	 Poor Bottom layer Thickest layer 	0.00	 Poor Bottom layer Thickest layer 	0.00
485C: Lupton	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00
Tawas	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer 	0.00

Table 19a.--Construction Materials--Continued

Map symbol and soil name	 Potential as so of gravel 	urce	 Potential as so of sand 	urce
	Rating class	Value	Rating class	Value
495B: Karlsborg	 Poor Bottom layer Thickest layer	 0.00 0.00		 0.00 0.72
Grettum	 Poor Bottom layer Thickest layer		 Fair Thickest layer Bottom layer	 0.36 0.58
Perida	 Poor Bottom layer Thickest layer 		 Fair Bottom layer Thickest layer 	0.58
495C: Karlsborg	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.00
Grettum	 Poor Bottom layer Thickest layer 		 Fair Thickest layer Bottom layer 	0.36
Perida	 Poor Bottom layer Thickest layer	0.00		0.58
495D:	 		 	
Karlsborg	Poor Bottom layer Thickest layer	0.00	Fair Thickest layer Bottom layer	0.00
Grettum	Poor Bottom layer Thickest layer	0.00	Fair Thickest layer Bottom layer	0.36
Perida	Poor Bottom layer Thickest layer	0.00	· -	0.58
496B: Karlsborg	 Poor Bottom layer Thickest layer	0.00		0.00
496C: Karlsborg	 Poor Bottom layer Thickest layer	0.00	:	0.00
496D: Karlsborg	 Poor Bottom layer Thickest layer	0.00	:	 0.00 0.72
497A: Meenon	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	 0.72 0.72

Table 19a.--Construction Materials--Continued

Map symbol and soil name	Potential as so of gravel	urce	Potential as so of sand	ource
	Rating class	Value	Rating class	Value
521A: Dody	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	 0.00 0.13
523A: Nokasippi	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.03
529B: Perida	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.58
531A: Stengel	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.10
542B: Haugen, very stony	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.02
Haugen	 Poor Bottom layer Thickest layer	0.00	 Bottom layer Thickest layer	0.02
542C: Haugen, very stony	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.02
Haugen	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.02
544F: Menahga	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.34
Mahtomedi	 Fair Thickest layer Bottom layer	0.00	 Fair Bottom layer Thickest layer	 0.64 0.64
553B: Branstad	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00
553C: Branstad	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00
553D: Branstad	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00

Table 19a.--Construction Materials--Continued

Map symbol and soil name	·		Potential as source of sand	
	Rating class	Value	Rating class	Value
555A: Fordum	 Poor Thickest layer Bottom layer	 0.00 0.00	 Fair Thickest layer Bottom layer	 0.00 0.53
557B: Shawano	 Poor Bottom layer Thickest layer	0.00	<u>-</u>	 0.36 0.36
557C: Shawano	 Poor Bottom layer Thickest layer	 0.00 0.00	<u>-</u>	 0.36 0.36
557D: Shawano	 Poor Bottom layer Thickest layer	 0.00 0.00	<u>-</u>	 0.36 0.36
586A: Chelmo	 Poor Bottom layer Thickest layer	 0.00 0.00	 Fair Thickest layer Bottom layer	 0.00 0.86
600A: Haplosaprists	 Not rated	 	 Not rated	
Psammaquents	Not rated	į	Not rated	ļ
615B: Cress	 Fair Thickest layer Bottom layer	 0.00 0.16	 Fair Thickest layer Bottom layer	 0.08 0.50
615C: Cress	 Fair Thickest layer Bottom layer	 0.00 0.16	-	 0.08 0.50
615D: Cress	 Fair Thickest layer Bottom layer	 0.00 0.16	 Fair Thickest layer Bottom layer	 0.08 0.50
620C: Lundeen		 0.00 0.00	-	 0.00 0.00
Haustrup	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00
Rock outcrop	 Not rated	!	 Not rated	
621A: Bjorkland	 Poor Bottom layer Thickest layer	 0.00 0.00	 Fair Bottom layer Thickest layer	 0.00 0.30

Table 19a.--Construction Materials--Continued

Map symbol and soil name	Potential as so of gravel	urce	Potential as so of sand	ource
	Rating class	Value	Rating class	Value
623A: Capitola	 Poor Thickest layer Bottom layer	0.00	-	 0.00 0.04
624A: Ossmer	 Fair Thickest layer Bottom layer	0.00	-	 0.00 0.50
631A: Giese	 Poor Bottom layer Thickest layer	0.00	<u>-</u>	0.02
632A: Aftad	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00
632B: Aftad	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00
632C: Aftad	 Poor Bottom layer Thickest layer	0.00	<u>-</u>	0.00
634C: Drylanding	 Poor Bottom layer Thickest layer	 0.00 0.00	 Poor Bottom layer Thickest layer	0.00
Beartree	 Poor Bottom layer Thickest layer	 0.00 0.00	<u>-</u>	 0.00 0.00
Rock outcrop	 Not rated		 Not rated	
635C: Drylanding	 Poor Bottom layer Thickest layer	0.00	-	0.00
Beartree	 Poor Bottom layer Thickest layer 	 0.00 0.00	· -	 0.00 0.00
Rock outcrop	Not rated		 Not rated 	
648B: Sconsin	 Fair Thickest layer Bottom layer 	 0.00 0.25	 Fair Thickest layer Bottom layer	 0.00 0.01

Table 19a.--Construction Materials--Continued

Map symbol and soil name	 Potential as so of gravel 	urce	 Potential as so of sand 	ource
	Rating class	Value	Rating class	Value
669D: Fremstadt, stony	 Poor Thickest layer	 0.00	 Fair Bottom layer	 0.07
	Bottom layer	0.00	Thickest layer	0.07
Pomroy	Poor Bottom layer Thickest layer 	0.00	Fair Bottom layer Thickest layer 	0.02
671B:	 		 	i
Spoonerhill, stony	Poor Bottom layer Thickest layer	0.00	· -	0.11
Spoonerhill	 Poor Bottom layer Thickest layer	0.00		0.11
706A: Winterfield	 Poor Thickest layer Bottom layer	 0.00 0.00	 Fair Thickest layer Bottom layer	 0.00 0.64
Totagatic	 Poor Bottom layer Thickest layer	 0.00 0.00		 0.44 0.64
715A: Mora	 Poor Bottom layer Thickest layer	0.00	· -	0.03
717B: Milaca	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.03
717C: Milaca	 Poor Bottom layer Thickest layer	0.00		0.03
720F:		İ		i
Haustrup	Poor Bottom layer Thickest layer	0.00	Poor Bottom layer Thickest layer	0.00
Lundeen	Poor Bottom layer Thickest layer	0.00	 Poor Thickest layer Bottom layer	0.00
Rock outcrop	 Not rated 		 Not rated 	
726B: Sissabagama	 Poor Bottom layer Thickest layer 	0.00	 Fair Bottom layer Thickest layer 	0.00

Table 19a.--Construction Materials--Continued

Map symbol and soil name	Potential as so of gravel	urce	Potential as source of sand		
	Rating class	Value	Rating class	Value	
742B: Milaca	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.03	
742C: Milaca	 Poor Bottom layer Thickest layer 	 0.00 0.00		0.03	
742D: Milaca	 Poor Bottom layer Thickest layer	0.00	:	0.03	
755A: Moppet	 Poor Thickest layer Bottom layer	0.00	·	0.00	
Fordum	 Poor Thickest layer Bottom layer	0.00	·	0.00	
771A: Lenroot	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.00	
812B: Mora	 Poor Bottom layer Thickest layer	0.00	:	0.03	
825A: Meehan	 Poor Bottom layer Thickest layer	0.00	· -	 0.48 0.82	
896A: Wurtsmith	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.56	
980A: Soderbeck	 Fair Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.00	
1070C: Fremstadt	 Poor Thickest layer Bottom layer	0.00	 Fair Bottom layer Thickest layer	0.07	
Cress	 Fair Thickest layer Bottom layer 	 0.00 0.16	 Fair Thickest layer Bottom layer 	0.08	

Table 19a.--Construction Materials--Continued

Map symbol and soil name	Potential as so of gravel	urce	Potential as source of sand		
	Rating class	Value	Rating class	Value	
1070D: Fremstadt	 Poor Thickest layer Bottom layer	 0.00 0.00	· -	 0.07 0.07	
Cress	 Fair Thickest layer Bottom layer	 0.00 0.16	:	 0.08 0.50	
1080B:	 		 		
Spoonerhill	Poor Bottom layer Thickest layer	0.00	· -	0.10	
Spoonerhill, stony	 Poor Bottom layer Thickest layer	0.00		0.11	
Cress	 Fair Thickest layer Bottom layer	 0.00 0.16		 0.08 0.50	
2002: Udorthents, earthen dams	 Not rated		 Not rated		
2015: Pits	 Not rated		 Not rated		
2050: Landfill	 Not rated		 Not rated		
3011A: Barronett	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00	
3082E:		İ	 		
Braham	Poor Bottom layer Thickest layer	0.00		0.00	
Shawano	 Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.36	
3114A: Saprists	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00	
Aquents	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	 0.82 0.82	
Aquepts	 Poor Thickest layer Bottom layer 	0.00	 Fair Thickest layer Bottom layer 	 0.00 0.50	

Table 19a.--Construction Materials--Continued

Map symbol and soil name	Potential as so of gravel	ource	Potential as source of sand		
	Rating class	Value	Rating class	Value	
3125A: Meehan	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	 0.48 0.82	
3126A: Wurtsmith	 Poor Bottom layer Thickest layer	 0.00 0.00	 Fair Thickest layer Bottom layer	 0.54 0.82	
3312B: Glendenning, very stony	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.03	
Glendenning	Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.03	
3336A: Fenander	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00	
3403A:		İ		i	
Loxley	Poor Bottom layer Thickest layer	0.00	Poor Bottom layer Thickest layer	0.00	
Beseman	 Poor Bottom layer Thickest layer	0.00	 Poor Bottom layer Thickest layer	0.00	
Dawson	 Poor Thickest layer Bottom layer	0.00	 Fair Thickest layer Bottom layer	0.00	
3429B: Lara	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	0.00	
3429C: Lara	 Poor Bottom layer Thickest layer	0.00		0.00	
3446A: Newson	 Poor Bottom layer Thickest layer	0.00	:	0.82	
3448B: Grettum	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.36	
3448C: Grettum	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer 	 0.36 0.58	

Table 19a.--Construction Materials--Continued

Map symbol and soil name	Potential as so of gravel	urce	Potential as source of sand		
	Rating class	Value	Rating class	Value	
3510B: Pomroy	 Poor Bottom layer	 0.00	 Fair Bottom layer	 0.02	
	Thickest layer	0.00	Thickest layer	0.08	
Fremstadt	Poor Thickest layer Bottom layer 	 0.00 0.00	Fair Bottom layer Thickest layer 	 0.07 0.07	
Fremstadt, stony	Poor Thickest layer Bottom layer	0.00	Fair Bottom layer Thickest layer	0.07	
3510C:				-	
Pomroy	Poor Bottom layer Thickest layer	0.00	Fair Bottom layer Thickest layer	0.02	
Fremstadt	Poor Thickest layer Bottom layer	0.00	Fair Bottom layer Thickest layer	0.07	
Fremstadt, stony	Poor Thickest layer Bottom layer	0.00	 Fair Bottom layer Thickest layer	0.07	
3511A: Bushville	 Poor Bottom layer Thickest layer	0.00	 Fair Bottom layer Thickest layer	 0.03 0.07	
3516A: Slimlake	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.54	
3625A: Lino	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	0.13	
3626A: Crex	 Poor Bottom layer Thickest layer	0.00	 Fair Thickest layer Bottom layer	 0.34 0.88	
3629B: Perida	Poor Bottom layer Thickest layer	į į	 - Fair Bottom layer Thickest layer	 0.58 0.72	
3636B: Plainbo	 Poor Thickest layer Bottom layer	0.00	 Fair Thickest layer Bottom layer	 0.19 0.51	
3636C: Plainbo	 Poor Thickest layer Bottom layer 	0.00	 Fair Thickest layer Bottom layer	 0.19 0.51	

Table 19a.--Construction Materials--Continued

Map symbol and soil name	Potential as se of gravel	ource	Potential as s of sand	ource
	Rating class	Value	Rating class	Value
M-W: Miscellaneous water	 Not rated 		 Not rated 	
W: Water	 Not rated		 Not rated	

Table 19b.--Construction Materials

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.00 to 0.99. The smaller the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	Potential as source of roadfill		ce
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3A: Totagatic	Too sandy Low content of	 0.00 0.12	 Poor Depth to saturated zone	 0.00	Depth to	 0.00 0.00
	organic matter Too acid	0.68	 	 	saturated zone	
Bowstring	 Good 	 	Poor Depth to saturated zone 	 0.00 	saturated zone	 0.00 0.00
Ausable	 Poor Too sandy Low content of organic matter Too acid	 0.00 0.12 0.97	 Poor Depth to saturated zone 	 0.00 	 Poor Too sandy Depth to saturated zone	 0.00 0.00
12A: Makwa	 Fair Stone content Low content of organic matter Too acid	 0.16 0.50 0.68	saturated zone Stone content	 0.00 0.16 0.94	(rock fragments) Depth to saturated zone	 0.00 0.00
22A: Comstock	 Fair Low content of organic matter Too acid Water erosion	 0.12 0.54 0.90	 Poor Depth to saturated zone 	 0.00 	saturated zone	 0.00 0.98
27A: Scott Lake	 Fair Low content of organic matter Too acid Droughty	 0.12 0.68 0.95	 Fair Depth to saturated zone 	 0.89 	(rock fragments) Depth to saturated zone	 0.32 0.89 0.97
28B: Haugen, very stony	 Fair Low content of organic matter Too acid 	 0.12 0.54 	 Fair Depth to saturated zone 	 0.53 	Poor	 0.00 0.00 0.53 0.92

Table 19b. -- Construction Materials -- Continued

Map symbol and soil name	 Potential as sour reclamation mate		 Potential as sou of roadfill	rce	 Potential as sour of topsoil 	ce
	Rating class and limiting features	Value	Rating class and	Value	Rating class and limiting features	Value
28B:						
Haugen	Low content of organic matter Too acid	 0.12 0.54 	Fair Depth to saturated zone	 0.53 	(dense layer) Rock fragments Depth to saturated zone Hard to reclaim (rock fragments) Too acid	 0.00 0.00 0.53 0.92
Rosholt, very stony	Fair Low content of organic matter Droughty Too acid	 0.12 0.60 0.68	Good 	 	Fair Rock fragments Hard to reclaim (rock fragments) 	 0.12 0.32
Rosholt	Fair Low content of organic matter Droughty Too acid	 0.12 0.67 0.68	Good 	 	Fair Rock fragments Hard to reclaim (rock fragments) 	 0.12 0.50
28C: Haugen, very stony	 Fair Low content of organic matter Too acid 	 0.12 0.54 	 Fair Depth to saturated zone 	 0.53 	(dense layer) Rock fragments Depth to saturated zone	 0.00 0.53 0.92 0.96 0.98
Haugen	Fair Low content of organic matter Too acid	 0.12 0.54 	Fair Depth to saturated zone	 0.53 	Poor Hard to reclaim (dense layer) Rock fragments Depth to saturated zone Hard to reclaim (rock fragments) Slope Too acid	 0.00 0.00 0.53 0.92 0.96 0.98
Rosholt, very stony	 Fair Low content of organic matter Droughty Too acid	 0.12 0.60 0.68	 Good 	 	 Fair Rock fragments Hard to reclaim (rock fragments) Slope	 0.12 0.32 0.96
Rosholt	Fair Low content of organic matter Droughty Too acid	 0.12 0.67 0.68	Good - - - -		Fair Rock fragments Hard to reclaim (rock fragments) Slope	 0.12 0.50 0.96

Table 19b.--Construction Materials--Continued

Map symbol and soil name	 Potential as sour reclamation mate		Potential as source		Potential as source of topsoil		
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and	Value	
38A: Rosholt	 Fair Low content of organic matter Droughty Too acid	 0.12 0.67 0.68	 Good 	 		 0.12 0.50 	
38B: Rosholt	 Fair Low content of organic matter Droughty Too acid	 0.12 0.67 0.68	 Good 	 		 0.12 0.50 	
38C: Rosholt	 Fair Low content of organic matter Droughty Too acid	 0.12 0.67 0.68	 Good 	 		 0.12 0.50 0.96	
38D: Rosholt	Fair Low content of organic matter Droughty Too acid	 0.12 0.67 0.68	 Fair Slope 	 0.98 	Rock fragments	 0.00 0.12 0.50	
42D: Amery	 Fair Low content of organic matter Too acid 	 0.12 0.54 	 Fair Slope 	 0.98 	Rock fragments Hard to reclaim (dense layer)	0.00	
43B: Antigo	Low content of organic matter	 0.12 0.68 0.90	 Good 	 	 Fair Hard to reclaim (rock fragments) 	 0.68 	
43C: Antigo	 Fair Low content of organic matter Too acid Water erosion	 0.12 0.68 0.90	 Good 	 	:	0.63	
63A: Crystal Lake	 Fair Low content of organic matter Too acid Water erosion	 0.12 0.54 0.90	 Fair Depth to saturated zone 	 0.53 	saturated zone	 0.53 0.98	

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	irce	Potential as source of topsoil		
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
63B:			 		 		
Crystal Lake	Fair		Fair		Fair		
	Low content of	0.12	Depth to	0.53	Depth to	0.53	
	organic matter		saturated zone		saturated zone		
	Too acid	0.54			Too acid	0.98	
	Water erosion	0.90	 		 	l I	
63C:						į	
Crystal Lake			Fair	1	Fair		
	Low content of	0.12	: -	0.53	: -	0.53	
	organic matter		saturated zone		saturated zone		
	Too acid Water erosion	0.54	 	l	Slope Too acid	0.96	
	water erosion						
64A:			 Dane				
Totagatic			Poor	0.00	Poor	0.00	
	Too sandy Low content of	0.00	: -	10.00	Too sandy Depth to	0.00	
	organic matter		sacuraced zone		saturated zone		
	Too acid	0.68				İ	
Winterfield	Poor		 Poor		Poor		
WINCELLIEIG	Too sandy	0.00	Depth to	0.00	1	0.00	
	Wind erosion	0.00	saturated zone		Depth to	0.00	
	Low content of	0.12			saturated zone		
	organic matter	i		İ	Rock fragments	0.88	
	Droughty	0.48			į		
69C:			 		 	 	
Keweenaw	Poor	i	Good	i	Fair	i	
	Wind erosion	0.00	İ	j	Too sandy	0.04	
	Too sandy	0.04			Slope	0.84	
	Low content of	0.12			Rock fragments	0.88	
	organic matter						
	Too acid	0.68	 		 		
Sayner	!		Good		Poor	į	
	Too sandy	0.00			Too sandy	0.00	
	Wind erosion	0.00	 			0.00	
	Droughty Low content of	0.01	 	l I	Hard to reclaim (rock fragments)		
	organic matter		 	i	Slope	0.84	
	Too acid	0.54	İ		į	İ	
Vilas	Poor		 Good		Poor	 	
1111	Too sandy	0.00			Too sandy	0.00	
	Wind erosion	0.00		İ	Slope	0.84	
	Low content of	0.12	İ	j	Rock fragments	0.97	
	organic matter						
	Too acid	0.68			!	!	
	Droughty	0.96	 		 		
69E:	İ				İ	İ	
Keweenaw	!		Poor		Poor		
	Wind erosion	0.00	Slope	0.00	:	0.00	
	Too sandy	0.04	 		Too sandy	0.04	
	Low content of organic matter	0.12	 	1	Rock fragments	0.88	
	Too acid	0.68	 	1	 	1	
	1 40-14	10.00	I I	1	I I	1	

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as source of reclamation material		Potential as source of roadfill		Potential as source of topsoil		
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
69E:	 		 				
Sayner	Poor	i	Poor	i	Poor	i	
-	Too sandy	0.00	Slope	0.00	Slope	0.00	
	Wind erosion	0.00	i -	i	Too sandy	0.00	
	Droughty	0.01	İ	İ	Rock fragments	0.00	
	Low content of	0.12		İ	Hard to reclaim	0.50	
	organic matter				(rock fragments)		
	Too acid	0.54					
Vilas	Poor		 Poor		 Poor		
	Too sandy	0.00	Slope	0.00	Slope	0.00	
	Wind erosion	0.00	İ	į	Too sandy	0.00	
	Low content of	0.12			Rock fragments	0.97	
	organic matter						
	Too acid	0.68					
	Droughty	0.96	 		l		
82B:			 			ì	
Cutaway	Poor		Fair		Fair		
	Wind erosion	0.00		0.53	Depth to	0.53	
	Low content of	0.12	saturated zone		saturated zone	!	
	organic matter						
	Too acid	0.99	 				
Branstad	Fair	İ	Fair	į	Fair	į	
	Low content of	0.12		0.53	:	0.53	
	organic matter		saturated zone		saturated zone		
82C:							
Cutaway	Poor		Fair		Fair		
	Wind erosion	0.00	: -	0.53	:	0.53	
	Low content of	0.12	saturated zone	!	saturated zone		
	organic matter Too acid	 0.99	 		Slope 	0.96	
	İ	į		į		į	
Branstad	1		Fair	!	Fair		
	Low content of	0.12	: -	0.53	:	0.53	
	organic matter		saturated zone		saturated zone Slope	0.96	
	İ	İ	İ	İ			
83A: Smestad	Poor		 Poor		 Poor		
Smcs cau	Wind erosion	0.00	Depth to	0.00	Depth to	0.00	
	Too sandy	0.02	saturated zone		saturated zone		
	Too acid	0.32	Low strength	0.00	Too sandy	0.02	
	Low content of	0.50	Shrink-swell	0.81	·	i	
	organic matter	į		į		į	
85B:	 		 		 		
Taylor	Poor	į	Poor	į	Poor	į	
	Too clayey	0.00	Low strength	0.00	Too clayey	0.00	
	Low content of	0.12	•	0.00	Depth to	0.00	
	organic matter		Depth to	0.00	saturated zone	ļ	
	Water erosion	0.90	saturated zone				
	Too acid	0.95	I	1		1	

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sourd reclamation mate:		Potential as sou of roadfill	rce	Potential as sour	Potential as source of topsoil	
	Rating class and	Value	Rating class and	Value	Rating class and	Value	
	limiting features	l	limiting features	<u> </u>	limiting features	1	
85C:		 		 	 		
Taylor	Poor	İ	Poor	İ	Poor	i	
_	Too clayey	0.00	Low strength	0.00	Too clayey	0.00	
	Low content of	0.12	Shrink-swell	0.00	Depth to	0.00	
	organic matter		Depth to	0.00	saturated zone		
	Water erosion	0.90	saturated zone		Slope	0.96	
	Too acid	0.95				!	
0.63	 					1	
86A: Indus	 Poor	 	Poor		 Poor	1	
Indus	Too clayey	0.00		0.00	!	0.00	
	Low content of	0.12	saturated zone		Depth to	0.00	
	organic matter		Low strength	0.00			
	Too acid	0.97	Shrink-swell	0.00	1	0.97	
	Carbonate content					1	
		į		İ	į	İ	
Alango	Poor		Poor		Poor		
	Too clayey	0.00	Depth to	0.00	Too clayey	0.00	
	Low content of	0.08	saturated zone		Depth to	0.00	
	organic matter		Shrink-swell	0.00	saturated zone	!	
	Carbonate content	!	Low strength	0.00		!	
	Too acid	0.88				1	
89A:	 	l I		 	 	1	
Wildwood	Poor	 	Poor	l I	Poor	1	
	Wind erosion	0.00		0.00	!	0.00	
	Too clayey	0.00	saturated zone		Depth to	0.00	
	Low content of	0.12		0.00		1	
	organic matter	į	Shrink-swell	0.18	Carbonate content	0.97	
	Too acid	0.84		İ		İ	
	Carbonate content	0.97					
	Droughty	0.99					
					!		
96B:						!	
Karlsborg	!	!	Fair	!	Poor		
	Too sandy Wind erosion	0.00	-	0.14	· -	0.00	
	Low content of	0.12	saturated zone Shrink-swell	0.95	Depth to saturated zone	10.14	
	organic matter		DILLING DWCIL		Buttarated 2011c	i	
	Too acid	0.68				i	
		İ		İ		i	
96C:		ĺ		İ		İ	
Karlsborg	Poor		Fair		Poor		
	Too sandy	0.00	_	0.14	Too sandy	0.00	
	Wind erosion	0.00	saturated zone		Depth to	0.14	
	Low content of	0.12	Shrink-swell	0.95	saturated zone		
	organic matter				Slope	0.96	
	Too acid	0.68		 	 	1	
96D:	 	I I		 	 	1	
Karlsborg	Poor	i I	Fair		Poor		
	Too sandy	0.00	Depth to	0.14	Too sandy	0.00	
	Wind erosion	0.00	saturated zone		Slope	0.00	
	Low content of	0.12	Shrink-swell	0.95	:	0.14	
	organic matter	İ	Slope	0.98	saturated zone	i	
	Too acid	0.68	-	İ	İ	i	

Table 19b.--Construction Materials--Continued

Rating class and limiting features oor Wind erosion Too sandy Low content of organic matter Droughty Too acid	 0.00 0.00 0.12 0.23	Rating class and limiting features	<u> </u> 	Rating class and limiting features	Value
Wind erosion Too sandy Low content of organic matter Droughty	0.00	 Good 	 	!	
Wind erosion Too sandy Low content of organic matter Droughty	0.00	Good 		!	İ
Too sandy Low content of organic matter Droughty	0.00	 		Too gonder	
Low content of organic matter Droughty	0.12	 		Too sandy	0.00
organic matter Droughty	 0.23	I		Too acid	0.88
Droughty		l			
Too acid					1
	0.50	l I		l	
					Ì
oor	ĺ	Good	İ	Poor	İ
Wind erosion	0.00			Too sandy	0.00
Too sandy	0.00			Too acid	0.88
Low content of	0.12			Slope	0.96
organic matter					
Too acid	0.50				
Droughty	0.60				
oor	į	Fair	i	Poor	i
Wind erosion	0.00	Slope	0.32	Slope	0.00
Too sandy	0.00			Too sandy	0.00
Low content of	0.12			Too acid	0.88
organic matter					
Too acid	0.50				
Droughty	0.60			l	
oor	į	Good	İ	Poor	İ
Too sandy	0.00		İ	Too sandy	0.00
Wind erosion	0.00				
Low content of	0.12				
organic matter					
Droughty	0.36				
Too acid	0.97	 	l i	l	
air		Fair		Poor	
Low content of	0.12	Slope	0.98	Slope	0.00
organic matter				Rock fragments	0.00
Too acid	0.54			Hard to reclaim	0.03
			!		!
	!		ļ	'	
	ļ		ļ		
	 	 	 	Too acid 	0.98
air		Fair			
Low content of	0.12	Slope	0.98		0.00
organic matter				Rock fragments	0.12
Droughty	0.60				0.32
Too acid	0.68			(rock fragments)	1
''a	Wind erosion Too sandy Low content of organic matter Too acid Droughty OOF Wind erosion Too sandy Low content of organic matter Too acid Droughty OOF Too sandy Wind erosion Low content of organic matter Droughty Too acid air Low content of organic matter Too acid air Low content of organic matter Too acid	Wind erosion 0.00 Too sandy 0.00 Low content of 0.12 organic matter Too acid 0.50 Droughty 0.60 Wind erosion 0.00 Too sandy 0.00 Low content of 0.12 organic matter Too acid 0.50 Droughty 0.60 OOF 0.00 Wind erosion 0.00 Wind erosion 0.00 Low content of 0.12 organic matter Droughty 0.36 Too acid 0.97 air Low content of 0.12 organic matter Too acid 0.54 air Low content of 0.12 organic matter Too acid 0.54	Wind erosion 0.00 Too sandy 0.00 Low content of 0.12 organic matter Too acid 0.50 Droughty 0.60 Too sandy 0.00 Low content of 0.12 organic matter Too acid 0.50 Droughty 0.60 Too sandy 0.00 Low content of 0.50 Droughty 0.60 Too sandy 0.00 Wind erosion 0.00 Wind erosion 0.00 Too sandy 0.00 Wind erosion 0.12 organic matter Droughty 0.36 Too acid 0.97 air Fair Low content of 0.12 Slope organic matter Too acid 0.54 air Fair Low content of 0.12 Slope organic matter Droughty 0.60	Wind erosion 0.00	Wind erosion 0.00 Too sandy Too acid Too sandy 0.00 Too acid Too acid Low content of organic matter Too acid 0.50 Droughty 0.60 Wind erosion 0.00 Slope Too sandy Low content of outless 0.12 Too acid <

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as sour of topsoil	ce
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
127E: Amery	 Fair Low content of organic matter Too acid 	 0.12 0.54 	 Poor Slope 	 0.00 	Rock fragments Hard to reclaim (dense layer)	 0.00 0.00 0.03 0.92
Rosholt	Fair Low content of organic matter Droughty Too acid	 0.12 0.60 0.68	 Poor Slope 	 0.00 	Rock fragments	 0.00 0.12 0.32
151A: Bluffton	 Fair Low content of organic matter 	 0.12 	 Poor Depth to saturated zone Shrink-swell	 0.00 0.87	 Poor Depth to saturated zone 	 0.00
152A: Alstad	 Fair Low content of organic matter Too acid	 0.12 0.97	saturated zone	 0.00 0.98	 Poor Depth to saturated zone	 0.00
154E: Cushing	Fair Low content of organic matter Too acid	 0.40 0.97	 Poor Slope Shrink-swell	 0.00 0.92 	 Poor Slope 	 0.00
156B: Magnor, very stony	 Fair Low content of organic matter Too acid Water erosion	 0.12 0.20 0.90 	 Poor Depth to saturated zone 	 0.00 	Poor	 0.00 0.00 0.00 0.92
Magnor	Fair Low content of organic matter Too acid Water erosion	 0.12 0.20 0.90 	Poor Depth to saturated zone 	 0.00 	(dense layer) Depth to saturated zone	 0.00 0.00 0.00 0.92
157B: Freeon, very stony		 0.12 0.68 0.90	 Poor Depth to saturated zone 	 0.00 		 0.00 0.00 0.92

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as source of reclamation material		Potential as source of roadfill		Potential as source of topsoil	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	
157B:			 -		 -	1
Freeon	 Fair		Poor		Poor	
1100011	Low content of	0.12	!	0.00		0.00
	organic matter	i	saturated zone	i	saturated zone	i
	Too acid	0.61	İ	į	Rock fragments	0.00
	Water erosion	0.90			Hard to reclaim	0.92
	!		[ļ	(rock fragments)	
157C:	l I		l I	l i	l	
Freeon, very stony	 Fair		Poor		Poor	
riedon, very scony	Low content of	0.12	!	0.00	'	0.00
	organic matter		saturated zone		saturated zone	
	Too acid	0.68		i	!	0.00
	Water erosion	0.90	İ	į	Hard to reclaim	0.92
					(rock fragments)	
					Slope	0.96
E	 Red =		 Page		 Page	
Freeon	Fair Low content of	0.12	Poor Depth to	0.00	Poor Depth to	0.00
	organic matter	0.12	saturated zone	10.00	saturated zone	10.00
	Too acid	0.61	Butaratea zone	i	!	0.00
	Water erosion	0.90		i		0.92
		i		i	(rock fragments)	i
					Slope	0.96
					!	!
160A:	 		 D = ===		 D = ===	
Oesterle	Low content of	0.12	Poor Depth to	0.00	Poor Depth to	0.00
	organic matter	0.12	saturated zone	1	saturated zone	1
	Too acid	0.68	Bacaracea zone	i	Rock fragments	0.12
	Droughty	0.91		i		0.32
	İ		İ	ĺ	(rock fragments)	İ
1455				ļ		
165B: Elderon	Poor	l i	 Fair		 Poor	1
11401011	Low content of	0.00	!	0.14		0.00
	organic matter					0.00
	Droughty	0.00	İ	į	(rock fragments)	į
	Too sandy	0.22			Too sandy	0.22
	Cobble content	0.86			!	!
	Too acid	0.99				
185B:	I I	I I	 	 	 	1
Tradelake	Poor		 Fair	İ	Poor	
	Too clayey	0.00	!	0.14	'	0.00
	Low content of	0.12		į	Depth to	0.14
	organic matter		Shrink-swell	0.38	saturated zone	
	Too acid	0.84				
Tarrian	 Deem		 Doom		 Doom	
Taylor		0.00	Poor Low strength	0.00	Poor Clavey	0.00
	Too clayey Low content of	0.12		0.00		0.00
	organic matter		Depth to	0.00		
	Water erosion	0.90	: -			İ
	Too acid	0.95	İ	İ	İ	İ

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill			Potential as source of topsoil 	
	Rating class and	Value	Rating class and	Value	Rating class and	Value	
	limiting features		limiting features	<u> </u>	limiting features	<u> </u>	
185C:			 		 		
Tradelake	Poor	İ	Fair	İ	Poor	i	
	Too clayey	0.00	Depth to	0.14	Too clayey	0.00	
	Low content of	0.12	saturated zone	İ	Depth to	0.14	
	organic matter	İ	Shrink-swell	0.38	saturated zone	İ	
	Too acid	0.84			Slope	0.96	
Taylor	Poor		 Poor		 Poor		
laylor	Too clayey	0.00	!	0.00	!	0.00	
	Low content of	0.12		0.00	:	0.00	
	organic matter		Depth to	0.00	saturated zone		
	Water erosion	0.90	: -		Slope	0.96	
	Too acid	0.95					
1055							
185D: Tradelake	Poor		 Fair		 Poor		
	Too clayey	0.00	1	0.38		0.00	
	Low content of	0.12	'	0.53	:	0.00	
	organic matter	i	saturated zone	İ	Depth to	0.53	
	Too acid	0.84	Slope	0.76	saturated zone	į	
Total on	 Deem		 Poor		 Poor		
Taylor	Too clayey	0.00	!	0.00	!	0.00	
	Low content of	0.12		0.00		0.00	
	organic matter	0.12	Depth to	0.00		0.00	
	Water erosion	0.90	: -	0.00	saturated zone	1	
	Too acid	0.95	!	0.76		i	
185E:							
Tradelake	Poor		Poor		Poor		
	Too clayey	0.00	Slope	0.00	Slope	0.00	
	Low content of	0.12	Shrink-swell	0.38	Too clayey	0.00	
	organic matter	İ	Depth to	0.53	Depth to	0.53	
	Too acid	0.84	saturated zone		saturated zone	ļ	
Taylor	Poor		 Poor	 	 Poor		
14,101	Too clayey	0.00	!	0.00	!	0.00	
	Low content of	0.12	-	0.00	:	0.00	
	organic matter	i	Shrink-swell	0.00	Depth to	0.00	
	Water erosion	0.90	Depth to	0.00	saturated zone	İ	
	Too acid	0.95	saturated zone			İ	
189A:			 		 		
Siren	Poor		 Poor		 Poor		
	Too clayey	0.00	Depth to	0.00	Too clayey	0.00	
	Low content of	0.00	saturated zone		Depth to	0.00	
	organic matter		Low strength	0.00	saturated zone		
	Too acid	0.20	Shrink-swell	0.42	Too acid	0.98	
193A:	 		 		 	1	
Minocqua	Fair		Poor		Poor	i	
	Low content of	0.12	!	0.00	!	0.00	
	organic matter		saturated zone		saturated zone	1	
	Too acid	0.68		İ	Rock fragments	0.12	
		i		İ	Hard to reclaim	0.68	
	į	į		İ	(rock fragments)		
		:	:	:		1	

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as source of reclamation material		Potential as sou of roadfill	rce	Potential as source of topsoil	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features		limiting features		limiting features	
337A:						
Plover	!		Poor		Poor	
	Low content of organic matter	0.12	-	0.00	Depth to saturated zone	0.00
	Too acid	0.68	saturated zone		Saturated Zone	
	100 acia			i i		ŀ
368B:	 				 	i
Mahtomedi	Poor	i	Good	i	Poor	i
	Too sandy	0.00]	ĺ	Too sandy	0.00
	Wind erosion	0.00			Rock fragments	0.00
	Droughty	0.00			Hard to reclaim	0.92
	Low content of	0.12			(rock fragments)	
	organic matter					
	Too acid	0.84				
Cress	1		Good		Fair	
	Low content of	0.12				0.02
	organic matter					0.22
	Too sandy	0.22			!	0.32
	Droughty	0.40		ļ	(rock fragments)	1
	Too acid	0.54	İ		Too acid	0.98
368C:	 	l I	 	l I	 	l i
Mahtomedi	Poor		 Good	l I	Poor	1
Mancomedi	Too sandy	0.00	6000		!	0.00
	Wind erosion	0.00			· -	0.00
	Droughty	0.00	 	i		0.92
	Low content of	0.12		i	(rock fragments)	
	organic matter			i	Slope	0.96
	Too acid	0.84		İ		İ
	İ	İ		İ	İ	į
Cress	Fair		Good		Fair	ĺ
	Low content of	0.12			Rock fragments	0.02
	organic matter				Too sandy	0.22
	Too sandy	0.22				0.32
	Droughty	0.40			(rock fragments)	
	Too acid	0.54		ļ	Slope	0.96
					Too acid	0.98
368D:	l I		İ		 	
Mahtomedi	Poor		 Fair		Poor	
Maricomear	Too sandy	0.00		0.50	!	0.00
	Wind erosion	0.00	_	0.50		0.00
	Droughty	0.00		i	. –	0.00
	Low content of	0.12		i		0.92
	organic matter	İ		İ	(rock fragments)	
	Too acid	0.84		j	j	į
Cress	•		Fair		Poor	
	Low content of	0.12	Slope	0.50	. –	0.00
	organic matter				,	0.02
	Too sandy	0.22				0.22
	Droughty	0.40			'	0.32
	Too acid	0.54			(rock fragments) Too acid	0.98

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as sour of topsoil	ce
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
368E:			 		 	
Mahtomedi	Poor	i	Poor	İ	Poor	i
	Too sandy	0.00	Slope	0.00	Slope	0.00
	Wind erosion	0.00		İ	Too sandy	0.00
	Droughty	0.00			Rock fragments	0.00
	Low content of	0.12			!	0.92
	organic matter Too acid	0.84	 		(rock fragments)	
Cress	!	!	Poor	!	Poor	
	Low content of	0.12	Slope	0.00		0.00
	organic matter		 			0.02
	Too sandy Droughty	0.22	 		Too sandy Hard to reclaim	0.22
	Too acid	0.54	 		(rock fragments)	!
					Too acid	0.98
2000						
380B: Cress	 Fair		 Good		 Fair	
	Low content of	0.12		į	Rock fragments	0.02
	organic matter	İ		İ	Too sandy	0.22
	Too sandy	0.22			Hard to reclaim	0.32
	Droughty	0.40			(rock fragments)	1
	Too acid	0.54	l		Too acid	0.98
Rosholt	Fair		 Good		 Fair	
	Low content of	0.12		İ	Rock fragments	0.12
	organic matter				Hard to reclaim	0.50
	Droughty Too acid	0.67	 		(rock fragments)	
	100 acid				 	
380C:						
Cress	!		Good		Fair	
	Low content of organic matter	0.12	 			0.02
	Too sandy	0.22	 			0.32
	Droughty	0.40	 		(rock fragments)	
	Too acid	0.54		i	Slope	0.96
	į			į	Too acid	0.98
Rosholt	 Fair		 Good		 Fair	
	Low content of	0.12		i	Rock fragments	0.12
	organic matter	i		į	Hard to reclaim	0.50
	Droughty	0.67			(rock fragments)	
	Too acid	0.68			Slope	0.96
380D:			 		 	
Cress	Fair	Í	Fair	į	Poor	İ
	Low content of	0.12	Slope	0.32	Slope	0.00
	organic matter		[[Rock fragments	0.02
	Too sandy	0.22			Too sandy	0.22
	Droughty	0.40			•	0.32
	Too acid	0.54	 		(rock fragments) Too acid	0.98
	İ					
Rosholt			Fair	1	Poor	
	Low content of organic matter	0.12	Slope	0.32	Slope Pock fragments	0.00
	Droughty	0.67	 		Rock fragments Hard to reclaim	0.12
	Too acid	0.68	! 		(rock fragments)	!
			!	!	,	1

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as sour	ce
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Valu
383B:	 		 			
Mahtomedi	Poor	İ	Good	İ	Poor	İ
	Too sandy	0.00	İ	İ	Too sandy	0.00
	Wind erosion	0.00			Rock fragments	0.00
	Droughty	0.00			Hard to reclaim	0.92
	Low content of	0.12			(rock fragments)	
	organic matter					!
	Too acid	0.84	l I		 	
383C:						
Mahtomedi	Poor		Good		Poor	
	Too sandy	0.00			•	0.00
	Wind erosion	0.00			!	0.00
	Droughty	0.00			!	0.92
	Low content of	0.12			(rock fragments)	
	organic matter				Slope	0.96
	Too acid	0.84	 			
383D:	į	į		į		į
Mahtomedi		1	Fair		Poor	
	Too sandy	0.00	Slope	0.32	Too sandy	0.00
	Wind erosion Droughty	0.00	 		Slope	0.00
	Low content of	0.12	 	1	!	0.92
	organic matter	0.12	 	İ	(rock fragments)	0.52
	Too acid	0.84			(100h 11ugmenes)	
392C:	 		l		 	
Rockmarsh	Poor		Poor	i	Poor	
	Low content of	0.00	Depth to	0.00	!	0.00
	organic matter	i	saturated zone	i	saturated zone	i
	Too acid	0.54	Cobble content	0.00	Rock fragments	0.00
	Cobble content	0.54	Stone content	0.92	Hard to reclaim	0.00
	Droughty	0.79			(rock fragments)	
	Stone content	0.92			Hard to reclaim	0.05
	 		 		(dense layer)	 0.63
	 		 		Slope 	
Dairyland	Poor	İ	Poor	1	Poor	ĺ
	Low content of	0.00	Cobble content	0.00	Hard to reclaim	0.00
	organic matter	!	Depth to	0.53	(dense layer)	!
	Droughty	0.09	saturated zone		Rock fragments	0.00
	Too sandy	0.18				0.00
	Cobble content	0.64			(rock fragments)	
	Too acid	0.84	 		· -	0.18
	 	1	 		Depth to saturated zone	0.53
	 		 		Slope	0.63
Malana	 Bada				 Decem	
Makwa	!	1	Poor		Poor Hard to reclaim	 0.00
	Stone content Low content of	0.16	Depth to saturated zone	0.00	hard to reclaim (rock fragments)	10.00
	organic matter	10.50	Stone content	0.16		0.00
	Too acid	0.68	Cobble content	0.16		0.00
					Rock fragments	0.00
	I .	1	I	1		, 5.00

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as sour of topsoil	cce
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
396B:			 		 	
Friendship	Poor		Good		Poor	
	Too sandy	0.00			Too sandy	0.00
	Wind erosion	0.00				
	Droughty Low content of	0.10	 		1	l i
	organic matter	0.12	 		 	İ
	Too acid	0.68				i
Wurtsmith	Poor		 Fair		Poor	
wurcsmich	Too sandy	0.00	Depth to	0.53		0.00
	Wind erosion	0.00	saturated zone		Depth to	0.53
	Low content of	0.12		i	saturated zone	i
	organic matter	İ	İ	İ	Too acid	0.76
	Droughty	0.13		İ	Rock fragments	0.97
	Too acid	0.50				
Grayling	Poor		 Good		 Poor	
	Too sandy	0.00	İ	İ	Too sandy	0.00
	Wind erosion	0.00		İ		ĺ
	Droughty	0.00				
	Low content of	0.12			!	
	organic matter					
	Too acid	0.50	 		 	
397A:		į	į	į	į	į
Perchlake	· ·		Poor	!	Poor	
	Too sandy	0.00	Depth to	0.00	:	0.00
	Wind erosion Low content of	0.00	saturated zone		Depth to saturated zone	0.00
	organic matter				sacuraced zone	
	Too acid	0.68		i		i
	Droughty	0.75	į	į	į	į
399B:	1		 		 	
Grayling	Poor	i	Good	i	Poor	i
	Too sandy	0.00			Too sandy	0.00
	Wind erosion	0.00				
	Droughty	0.00				
	Low content of	0.12				
	organic matter Too acid	0.50	 		 	
					į	1
399C: Grayling	Poor		 Good		 Poor	
Gray ring	Too sandy	0.00			Too sandy	0.00
	Wind erosion	0.00			Slope	0.96
	Droughty	0.00		i		i
	Low content of	0.12		İ		ĺ
	organic matter					
	Too acid	0.50	l		 	
399D:						
Grayling	Poor		Fair		Poor	
	Too sandy	0.00	Slope	0.32		0.00
	Wind erosion	0.00			Slope	0.00
	Droughty	0.00	 			1
	Low content of organic matter	0.12	 		 	1
	Too acid	0.50	 		 	1
	100 4014	10.50	1	1	1	1

Table 19b.--Construction Materials--Continued

Map symbol and soil name	 Potential as sour reclamation mate 		Potential as source of roadfill		Potential as source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
406A: Loxley	 Fair Too acid 	 0.50 	 Poor Depth to saturated zone 	 0.00 	Poor Depth to saturated zone Content of organic matter Too acid	 0.00 0.00 0.12
407A: Seelyeville	 Fair Too acid 	 0.88 	 Poor Depth to saturated zone 	 0.00 	 Poor Depth to saturated zone Content of organic matter	 0.00 0.00
Markey	 Good 	 	 Poor Depth to saturated zone 	 0.00 	 Poor Depth to saturated zone Content of organic matter	 0.00 0.00
410A: Seelyeville	 Fair Too acid 	 0.88 	 Poor Depth to saturated zone	 0.00 	Poor Depth to saturated zone Content of organic matter	0.00
Cathro	 Fair Too acid 	 0.99 	 Depth to saturated zone	 0.00 	Poor Depth to saturated zone Content of organic matter	0.00
419A: Seelyeville	 Fair Too acid 	 0.88 	 Poor Depth to saturated zone 	 0.00 	 Poor Depth to saturated zone Content of organic matter	0.00
Cathro	 Fair Too acid 	 0.99 	 Poor Depth to saturated zone 		Poor Depth to saturated zone Content of organic matter	0.00
Markey	 Good 	 	 Poor Depth to saturated zone 		Poor Depth to saturated zone Content of organic matter	 0.00 0.00
421A: Dora	 Good 	 	 Poor Depth to saturated zone 	1	Poor Depth to saturated zone Content of organic matter	 0.00 0.00

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as source reclamation mate:		Potential as sou of roadfill	rce	Potential as source of topsoil 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
421A:						İ
Markey	 Good 	 	 Poor Depth to saturated zone	 0.00 	 Poor Depth to saturated zone Content of	0.00
Seelyeville	!	!	 Poor	1	organic matter	
	Too acid 	0.88 	Depth to saturated zone	0.00 	Depth to saturated zone Content of organic matter	0.00 0.00
422A:	 	 	 	j I	 	İ
Seelyeville	Fair	İ	Poor	İ	Poor	İ
	Too acid 	0.88 	Depth to saturated zone 	0.00 	Depth to saturated zone Content of organic matter	0.00 0.00
Cathro	 Fair	 	Poor	j I	Poor	j I
	Too acid	0.99	Depth to saturated zone	0.00	!	0.00
	 				Content of organic matter	0.00
Rondeau	 Poor	 	 Poor		 Poor	
	Carbonate content	0.00	Depth to saturated zone	0.00	Depth to saturated zone Content of	0.00 0.00
	 	 	 		organic matter	
426B:						İ
Emmert	Poor		Good		Poor	
	Too sandy	0.00			Too sandy	0.00
	Wind erosion	0.00			Hard to reclaim	0.00
	Low content of	0.00			(rock fragments)	!
	organic matter Droughty	0.00	 	 	Rock fragments	0.00
	Too acid	0.99				
Mahtomedi	Poor	 	 Good		 Poor	
		0.00			Too sandy	0.00
	Wind erosion	0.00			Rock fragments	0.00
	Droughty	0.00	 	 	Hard to reclaim (rock fragments)	0.92
	Low content of	0.12				
	organic matter Too acid	 0.84	 		 	
Want a barra	İ				 	
Menahga	·	10.00	Good	1	Poor	10.00
	Wind erosion	0.00	 	1	Too sandy	0.00
	Too sandy	0.00	 	 	Too acid	0.88
	Low content of organic matter	0.12	[[
			i	i	i	1
	Too acid Droughty	0.50		į		ļ

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as source of reclamation material		 Potential as sou of roadfill 	ırce	Potential as source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
426C:						
Emmert	Poor		Good		Poor	1
mmer c	Too sandy	0.00	3004	1	Too sandy	0.00
	Wind erosion	0.00	 	1	Hard to reclaim	0.00
	Low content of	0.00	I I	1	(rock fragments)	
	organic matter			1	Rock fragments	0.00
	Droughty	0.00		i	Slope	0.96
	Too acid	0.99		į		
Mahtomedi	 Poor		 Good		 Poor	
	Too sandy	0.00			Too sandy	0.00
	Wind erosion	0.00			Rock fragments	0.00
	Droughty	0.00			Hard to reclaim	0.92
	Low content of	0.12			(rock fragments)	
	organic matter			ļ	Slope	0.96
	Too acid	0.84	 			
Menahga	1		Good	İ	Poor	İ
	Wind erosion	0.00		!	Too sandy	0.00
	Too sandy	0.00			Too acid	0.88
	Low content of	0.12	!	!	Slope	0.96
	organic matter			-		1
	Too acid	0.50	1			
	Droughty 	0.61 	 			
426D:	į	į		į		į
Emmert	!	1	Fair		Poor	!
	Too sandy	0.00	Slope	0.32		0.00
	Wind erosion	0.00			!	0.00
	Low content of	0.00		-	(rock fragments)	
	organic matter	10.00	 		Rock fragments	0.00
	Droughty Too acid	0.00 0.99	 		Slope	0.00
Mahtomedi	Poor		Fair		Poor	
	Too sandy	0.00	Slope	0.32	Too sandy	0.00
	Wind erosion	0.00			Slope	0.00
	Droughty	0.00	!	!	Rock fragments	0.00
	Low content of	0.12			Hard to reclaim	0.92
	organic matter Too acid	0.84	 		(rock fragments)	
		į	<u>.</u>	į	_	į
Menahga		1	Fair	1	Poor	
	Wind erosion	0.00	Slope	0.32		0.00
	Too sandy Low content of	0.00	 	1	Too sandy Too acid	0.00
	organic matter	0.12	 	1	100 acid	10.88
	Too acid	0.50	 	1	 	
	Droughty	0.61				
430A:	 		 		 	
Freya	Poor		Poor		Poor	
=	Too sandy	0.00	Depth to	0.00	'	0.00
	Wind erosion	0.00	saturated zone		Depth to	0.00
	Low content of	0.12			saturated zone	
	organic matter					
	Too acid	0.99				
				1		

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as source of topsoil 	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
439B:			 		 	
Graycalm	Poor	İ	Good	i	Poor	i
	Too sandy	0.00			Too sandy	0.00
	Wind erosion	0.00			Too acid	0.99
	Low content of	0.12				
	organic matter					!
	Too acid	0.50			 	
	Droughty	0.75	 		 	
Menahga	Poor		Good		Poor	i
5	Wind erosion	0.00		i	Too sandy	0.00
	Too sandy	0.00		İ	Too acid	0.88
	Low content of	0.12				
	organic matter					
	Too acid	0.50				!
	Droughty	0.61				-
439C:	l I		 		 	
Graycalm	Poor		Good		Poor	
ordy curm	Too sandy	0.00			Too sandy	0.00
	Wind erosion	0.00		İ	Slope	0.96
	Low content of	0.12	İ	į	Too acid	0.99
	organic matter					
	Too acid	0.50				
	Droughty	0.75				
Menahga	Doom		 Good		Doom	
menanga	Wind erosion	0.00	Good	1	Poor Too sandy	0.00
	Too sandy	0.00			Too acid	0.88
	Low content of	0.12			Slope	0.96
	organic matter	İ		i	<u> </u>	i
	Too acid	0.50		İ		İ
	Droughty	0.61	!	[[1
420D					 	
439D: Graycalm	Poor	l	 Fair		 Poor	
Gray carm	Too sandy	0.00	Slope	0.32	!	0.00
	Wind erosion	0.00			Slope	0.00
	Low content of	0.12		i	Too acid	0.99
	organic matter			İ	İ	İ
	Too acid	0.50				
	Droughty	0.75				
Menahga	 Doom		 Fair		 Doom	
menanga	Wind erosion	0.00	Slope	0.32	Poor Slope	0.00
	Too sandy	0.00	blobe	0.52	Too sandy	0.00
	Low content of	0.12		İ	Too acid	0.88
	organic matter	İ	İ	į	İ	İ
	Too acid	0.50				
	Droughty	0.61				!
4420.			 		 	
442C: Haugen	 Fair	I	 Fair	I	 Poor	1
	Low content of	0.12	!	0.53	!	0.00
	organic matter	i	saturated zone	i	(dense layer)	
	Too acid	0.54			Rock fragments	0.00
					Depth to	0.53
					saturated zone	
					Hard to reclaim	0.92
	 		 		(rock fragments) Too acid	
	 	1	I 		100 actu	0.98
	I	1	I	1	I	1

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as sour	ce
	Rating class and	Value	 Rating class and limiting features	Value	Rating class and limiting features	Value
442C: Greenwood	 Fair Too acid 	 0.50 	 Poor Depth to saturated zone 	 0.00 	saturated zone Content of organic matter	 0.00 0.00 0.12
443D: Amery	 Fair Low content of organic matter Too acid 	 0.12 0.54 	 Poor Slope 	 0.00 	Rock fragments Hard to reclaim (dense layer)	 0.00 0.00 0.03 0.92
Greenwood	1	 0.50 	 Poor Depth to saturated zone	 0.00 	saturated zone Content of organic matter	 0.00 0.00 0.12
459A: Loxley		 0.50 	 Poor Depth to saturated zone 	 0.00 	saturated zone Content of organic matter	 0.00 0.00 0.12
Daisybay	 Fair Low content of organic matter Too acid	 0.12 0.50	saturated zone	 0.00 0.98 	saturated zone Content of organic matter	 0.00 0.00 0.50
Dawson	 Poor Too acid 	 0.00 	 Poor Depth to saturated zone 	 0.00 	saturated zone Content of organic matter Too acid	 0.00 0.00 0.12 0.82
461A: Bowstring	 Good 	 	 Poor Depth to saturated zone 	 0.00 	saturated zone	 0.00 0.00

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as source of topsoil	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	<u> </u>	limiting features	
4655						
465A:			 			
Newson	Poor	!	Poor	1	Poor	
	Too sandy	0.00	Depth to	0.00	Too sandy	0.00
	Low content of	0.12	saturated zone		Depth to saturated zone	0.00
	organic matter Too acid	10 50	 		!	0.07
		0.50 0.97	 	 	Rock fragments	0.97
	Droughty	0.97	 	 	 	
Meehan	Poor		Poor	l I	Poor	
recitati	Too sandy	0.00	Depth to	0.00	!	0.00
	Wind erosion	0.00	saturated zone		Depth to	0.00
	Droughty	0.03		İ	saturated zone	
	Low content of	0.12			Too acid	0.88
	organic matter					
	Too acid	0.50		İ		i
		i		İ		i
469E:		j	j	į	İ	į
Bigisland	Poor		Poor		Poor	
	Droughty	0.00	Slope	0.00	Hard to reclaim	0.00
	Wind erosion	0.00	Cobble content	0.05	(rock fragments)	
	Too acid	0.84	Stone content	0.92	Rock fragments	0.00
	Cobble content	0.84			Hard to reclaim	0.00
	Low content of	0.88			(dense layer)	
	organic matter				Slope	0.00
	Stone content	0.92				ļ
Milaca	 Roim		 Poor		 Poor	
MIIACA	Low content of	0.12	Slope	0.00	!	0.00
	organic matter	0.12	Depth to	0.53	:	0.00
	Too acid	0.84	saturated zone	0.55	(dense layer)	0.00
	Water erosion	0.99	Buttarated Zone		Depth to	0.53
					saturated zone	
		i		İ		i
471B:		i	İ	İ	İ	İ
Dairyland	Poor		Poor		Poor	
	Low content of	0.00	Cobble content	0.00	Hard to reclaim	0.00
	organic matter		Depth to	0.53	(dense layer)	
	Droughty	0.09	saturated zone		Rock fragments	0.00
	Too sandy	0.18			Hard to reclaim	0.00
	Cobble content	0.64			(rock fragments)	
	Too acid	0.84			Too sandy	0.18
		ļ			Depth to	0.53
					saturated zone	
Emmont	 Doom		 Cood		 Doom	1
Emmert	!	0.00	Good	 	Poor Too sandy	0.00
	Too sandy Low content of	0.00	 	 		0.00
	organic matter	0.00	 	1	(rock fragments)	
	Droughty	0.00	 		Rock fragments	0.00
	Too acid	0.99	 		II agments	
		10.00	I	1	I .	1

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as source of roadfill		Potential as source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		<u> </u>		1		<u> </u>
471C:	j	į		į	İ	İ
Dairyland	Poor		Poor		Poor	
	Wind erosion	0.00	Cobble content	0.00		0.00
	Low content of	0.00	Depth to	0.53	(dense layer)	
	organic matter		saturated zone	1	Rock fragments	0.00
	Droughty Too sandy	0.09 0.18	İ		Hard to reclaim (rock fragments)	0.00
	Cobble content	0.18	 			0.18
	Too acid	0.84			Depth to	0.53
				i	saturated zone	
		İ		İ	Slope	0.63
	į	į		į	· -	į
Emmert	Poor		Good		Poor	
	Too sandy	0.00			Too sandy	0.00
	Wind erosion	0.00				0.00
	Low content of	0.00			(rock fragments)	:
	organic matter				Rock fragments	0.00
	Droughty Too acid	0.00	 		Slope	0.63
	100 acid	0.99	 		 	
472A:		i		i		i
Rockmarsh	Poor	i	Poor	i	Poor	i
	Low content of	0.00	Depth to	0.00	Depth to	0.00
	organic matter		saturated zone		saturated zone	
	Too acid	0.54	Cobble content	0.00	Rock fragments	0.00
	Cobble content	0.54	Stone content	0.92	!	0.00
	Droughty	0.79			(rock fragments)	:
	Stone content	0.92	 		Hard to reclaim (dense layer)	0.05
	 		 		(dense layer)	
Clemens	Fair	i	Poor	i	Poor	i
	Low content of	0.12	Depth to	0.00	Depth to	0.00
	organic matter	İ	saturated zone	İ	saturated zone	ĺ
	Too acid	0.54	Cobble content	0.11	Rock fragments	0.00
	Cobble content	0.88				0.00
					(rock fragments)	
473A:	 					1
Dairyland	Poor		Poor		Poor	l I
	Low content of	0.00	!	0.00	!	0.00
	organic matter		Depth to	0.53	(dense layer)	i
	Droughty	0.09	saturated zone	į	Rock fragments	0.00
	Too sandy	0.18			Hard to reclaim	0.00
	Cobble content	0.64			(rock fragments)	
	Too acid	0.84		!	Too sandy	0.18
					:	0.53
	 		 		saturated zone	
Skog	Poor	1	 Fair	1	 Poor	1
	Droughty	0.00		0.89	!	0.00
	Low content of	0.02	saturated zone	i	(rock fragments)	
	organic matter	İ		İ	!	0.00
	Too sandy	0.22			Too sandy	0.22
	Too acid	0.84			Depth to	0.89

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
484A: Greenwood	 Fair Too acid 	 0.50 	 Poor Depth to saturated zone	 0.00 	 Poor Depth to saturated zone Content of	 0.00 0.00
Beseman	 Fair Too acid 	 0.61 	 Poor Depth to saturated zone	 0.00 	organic matter Too acid Poor Depth to saturated zone Content of organic matter Too acid	 0.12 0.00 0.00 0.12
485C: Lupton	 Good 	 	 Poor Depth to saturated zone 	 0.00 	 Poor Depth to saturated zone Content of organic matter	 0.00 0.00
Tawas	 Good 	 	 Poor Depth to saturated zone	 0.00 	Poor Depth to saturated zone Content of organic matter	 0.00 0.00
495B: Karlsborg	 Poor Too sandy Wind erosion Low content of organic matter Too acid	 0.00 0.00 0.12 0.68	saturated zone	 0.14 0.95	Depth to	 0.00 0.14
Grettum	Poor Wind erosion Too sandy Low content of organic matter Too acid Droughty	 0.00 0.00 0.12 0.61 0.98	 Good 		 Poor Too sandy Too acid 	 0.00 0.99
Perida	Poor Too sandy Wind erosion Low content of organic matter Too acid	 0.00 0.00 0.12 0.61	 Fair Shrink-swell 	 0.99 	 Poor Too sandy Too acid 	 0.00 0.99
495C: Karlsborg	Poor Too sandy Wind erosion Low content of organic matter Too acid	 0.00 0.00 0.12 	saturated zone	 0.14 0.95	Depth to	 0.00 0.14 0.96

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		 Potential as sou of roadfill 	rce	Potential as source of topsoil	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features		limiting features		limiting features	
495C:						
Grettum	Poor		 Good	l I	Poor	1
GI eccum	I control of the cont	0.00	9000	 	Too sandy	0.00
	Too sandy	0.00	! 		Slope	0.96
		0.12		İ	Too acid	0.99
	organic matter	i		İ		i
	Too acid	0.61	İ	İ	İ	i
	Droughty	0.98				Ì
Perida	Poor		 Fair		Poor	
	Too sandy	0.00	Shrink-swell	0.99	Too sandy	0.00
	Wind erosion	0.00			Slope	0.96
	Low content of	0.12			Too acid	0.99
	organic matter					
	Too acid	0.61	l I	l I	 	
495D:						
Karlsborg	Poor	1	Fair	1	Poor	
	Too sandy	0.00		0.14		0.00
	Wind erosion	0.00	•		Slope	0.00
		0.12		0.32	-	0.14
	organic matter Too acid		Shrink-swell	0.95	saturated zone	
	100 acid	0.68	 	 	 	
Grettum	Poor	į	Fair	İ	Poor	İ
	Wind erosion	0.00	Slope	0.32	Too sandy	0.00
	Too sandy	0.00			Slope	0.00
	Low content of	0.12			Too acid	0.99
	organic matter		 			
	Too acid Droughty	0.61	 	l I	 	-
	Droughty	0.98	 	 	 	1
Perida	Poor	i	Fair	j	Poor	i
	Wind erosion	0.00	Slope	0.32	Too sandy	0.00
	Too sandy	0.00	Shrink-swell	0.99		0.00
	Low content of	0.12			Too acid	0.99
	organic matter Too acid					-
	100 acid	0.61	 	 	 	
496B:	İ	į	İ	İ	İ	İ
Karlsborg		1	Fair	!	Poor	
	Too sandy	0.00		0.14		0.00
		0.00			Depth to	0.14
	Low content of	0.12	Shrink-swell	0.95	saturated zone	1
	organic matter Too acid	0.68	 	 	 	
496C:	 Page				 Page	
Karlsborg		1	Fair		Poor	
	Too sandy Wind erosion	0.00	Depth to saturated zone	0.14		0.00
	Low content of	0.12	1	 0.95	Depth to saturated zone	0.14
	organic matter		SHITHY-SMCIT		Slope	0.96
	Too acid	0.68		i		
	1	1	İ	1	i	i

Table 19b.--Construction Materials--Continued

496D:	Too sandy Wind erosion Low content of organic matter Too acid Poor Too sandy Wind erosion Low content of	 0.00 0.00 0.12 0.68	limiting features	 	limiting features	Value
Karlsborg F	Too sandy Wind erosion Low content of organic matter Too acid Poor Too sandy Wind erosion Low content of	0.00 0.00 0.12 0.68	Depth to saturated zone	0.14	Too sandy	
497A:	Too sandy Wind erosion Low content of organic matter Too acid Poor Too sandy Wind erosion Low content of	0.00 0.00 0.12 0.68	Depth to saturated zone	0.14	Too sandy	
Meenon F	Wind erosion Low content of organic matter Too acid Poor Too sandy Wind erosion Low content of	0.00	saturated zone	0.32	Slope	
Meenon F	Low content of organic matter Too acid Poor Too sandy Wind erosion Low content of	0.12	Slope	:	:	i a
Meenon F	organic matter Too acid Poor Too sandy Wind erosion Low content of	0.68		:	1	0.00
Meenon F	Too acid Poor Too sandy Wind erosion Low content of	į Į	Shrink-swell 	0.95	Depth to	0.14
Meenon F	Too sandy Wind erosion Low content of	 	İ		saturated zone	
Meenon F	Too sandy Wind erosion Low content of		 	į	 -	į
521A: 	Too sandy Wind erosion Low content of	1	Poor		Poor	1
Dody	Wind erosion Low content of	0.00	!	0.00	!	0.00
Dody	Low content of	0.00	· -		Depth to	0.00
Dody		0.12		i	saturated zone	İ
Dody	organic matter	i		i	Rock fragments	0.97
Dody	Too acid	0.80	İ	į	ĺ	İ
Dody	Droughty	0.97	 			
		1	Poor	!	Poor	
	Too clayey	0.00	: -	0.00		0.00
	Low content of	0.12			Depth to	0.00
	organic matter Too acid	0.68	Low strength Shrink-swell	0.00	saturated zone	
523A:			 			
Nokasippi	Fair	1	Poor		Poor	
Nonabippi	Low content of	0.12	!	0.00		0.00
	organic matter		saturated zone		saturated zone	
	Too acid	0.68		i	1	0.03
į		İ	İ	į	(dense layer)	İ
j		İ		İ	Hard to reclaim	0.95
			 		(rock fragments)	
529B:						
Perida		!	Fair	1	Poor	
	Too sandy	0.00	Shrink-swell	0.99		0.00
	Wind erosion Low content of	0.00	İ		Too acid	0.99
	organic matter	0.12	 		 	1
	Too acid	0.61	 		 	
531A:			 		l I	
Stengel F	Poor		Poor	İ	Poor	i
]	Wind erosion	0.00	Depth to	0.00	1	0.00
į	Droughty	0.00	saturated zone	į	saturated zone	İ
j	Too sandy	0.01		İ	Too sandy	0.01
	Too acid	0.88	 		l I	
542B:						
Haugen, very stony F		1	Fair	!	Poor	
	Low content of	0.12	Depth to	0.53	Hard to reclaim	0.00
	organic matter	0.54	saturated zone	 	(dense layer) Rock fragments	0.00
	Too acid	0.54	I	1		
	Too acid	1	I			1
	Too acid		 	į	Depth to	0.53
	Too acid	 	 - 		Depth to saturated zone	0.53
į	Too acid	 	 		Depth to	0.53

Table 19b.--Construction Materials--Continued

Map symbol and soil name	 Potential as sour reclamation mate 		 Potential as sou of roadfill 	rce	Potential as source of topsoil	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	<u> </u>	limiting features	<u> </u>
542B:		İ		i		
Haugen	Fair		Fair		Poor	
	Low content of	0.12	Depth to	0.53	Hard to reclaim	0.00
	organic matter		saturated zone	ļ	(dense layer)	
	Too acid	0.54	l I		Rock fragments	0.00
	 		 		Depth to saturated zone	0.53
	 			i		0.92
	! 	i		i	(rock fragments)	
		İ		İ	Too acid	0.98
542C:						
Haugen, very stony	 Fair		 Fair		Poor	
	Low content of	0.12	Depth to	0.53	Hard to reclaim	0.00
	organic matter		saturated zone		(dense layer)	
	Too acid	0.54			Rock fragments	0.00
					Depth to	0.53
	 -		 		saturated zone	0.00
	 		 		Hard to reclaim (rock fragments)	0.92
	 		 		Slope	0.96
	 	i		i	Too acid	0.98
		İ		i		İ
Haugen	Fair		Fair		Poor	
	Low content of	0.12	Depth to	0.53	Hard to reclaim	0.00
	organic matter		saturated zone	ļ	(dense layer)	
	Too acid	0.54	 		Rock fragments	0.00
	 		 		Depth to saturated zone	0.53
	 			i		0.92
	 	i		i	(rock fragments)	
		i		i	Slope	0.96
		į		İ	Too acid	0.98
544F:	 		 		 	
Menahga	Poor	İ	Poor	i	Poor	i
	Wind erosion	0.00	Slope	0.00	Slope	0.00
	Too sandy	0.00			Too sandy	0.00
	Low content of	0.12		ļ	Too acid	0.88
	organic matter		İ			
	Too acid Droughty	0.50	 		 	
Mahtomedi	•		Poor		Poor	!
	Too sandy	0.00	Slope	0.00	Slope	0.00
	Wind erosion	0.00	 		Too sandy	0.00
	Droughty Low content of	0.00	 		Rock fragments Hard to reclaim	0.00
	organic matter		! 	İ	(rock fragments)	1
	Too acid	0.84				İ
EE2D.						
553B: Branstad	 Fair		 Fair		 Fair	1
	Low content of	0.12		0.53	!	0.53
	organic matter	į	saturated zone	İ	saturated zone	į

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		 Potential as sou of roadfill 	rce	 Potential as sour of topsoil 	Potential as source of topsoil	
	Rating class and	Value	Rating class and	Value	Rating class and	Value	
	limiting features	<u>i </u>	limiting features	<u>i</u>	limiting features	<u>i </u>	
553C: Branstad	 Fair Low content of organic matter	 0.12 	 Fair Depth to saturated zone	 0.53 	 Fair Depth to saturated zone Slope	 0.53 0.96	
553D:	 		 		 		
Branstad	 Fair Low content of organic matter 	 0.12 	 Fair Depth to saturated zone Slope	 0.53 0.98	Depth to	0.00	
555A:		į				į	
Fordum	Fair Low content of organic matter Water erosion	0.88	Poor Depth to saturated zone 	 0.00 	Poor Depth to saturated zone Rock fragments	0.00	
557B:			 		 		
Shawano	Poor Too sandy Wind erosion Low content of organic matter Droughty Too acid	0.00 0.00 0.12 0.51 0.68	Good 	 	Poor Too sandy 	0.00	
557C:	 		 		 		
Shawano	Poor Too sandy Wind erosion Low content of organic matter Droughty Too acid	 0.00 0.00 0.12 0.51 0.68	Good 	 	Poor Too sandy Slope 	0.00	
557D:					 		
Shawano	Poor Too sandy Wind erosion Low content of organic matter Droughty Too acid	 0.00 0.00 0.12 0.51 0.68	Fair Slope 	 0.32 	Poor Too sandy Slope 	 0.00 0.00 	
586A:			 		 		
Chelmo	Poor Too clayey Low content of organic matter Too acid	0.00	saturated zone	 0.00 0.99 	Depth to	0.00	
600A: Haplosaprists	 Not rated		 Not rated		 Not rated		
Psammaquents	 Not rated 	 	 Not rated 	 	 Not rated 	 	

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as source of roadfill		Potential as source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
615B:			 	 		
Cress	Fair	i	Good	i	Fair	i
	Low content of	0.12	İ	İ	Rock fragments	0.02
	organic matter	İ	ĺ	ĺ	Too sandy	0.22
	Too sandy	0.22			Hard to reclaim	0.32
	Droughty	0.40			(rock fragments)	
	Too acid	0.54			Too acid	0.98
615C:			 	 	 	
Cress	Fair	i	Good	i	Fair	i
01000	Low content of	0.12		i	!	0.02
	organic matter		 	i		0.22
	_	0.22	İ	i	· -	0.32
	Droughty	0.40		i	(rock fragments)	
i	Too acid	0.54	İ	i	!	0.96
		į	İ	į	Too acid	0.98
615D:		l i	l	l I	l	
Cress	Fair	i	 Fair	l I	Poor	ì
01000	Low content of	0.12	!	0.32	!	0.00
	organic matter				-	0.02
	Too sandy	0.22	 	i	!	0.22
	-	0.40		i		0.32
	Too acid	0.54		i	(rock fragments)	i
		İ	İ	İ		0.98
620C:			 			
Lundeen	Fair	i	Poor		Fair	i
	Too acid	0.50	!	!	!	0.54
i	Depth to bedrock	1	: -	0.78	:	0.88
i	Low content of	0.88	İ	i		i
	organic matter	į		į		į
Haustrup	Poor	 	 Poor	l I	 Poor	
naub cr ap	Depth to bedrock		Depth to bedrock	!	!	0.00
	Droughty	0.05	Depen to Dearock		:	0.68
	Too acid	0.50				
Rock outcrop	Not rated		 Not rated		 Not rated	
621A:			 	 	[]	
Bjorkland	Poor		 Poor		Poor	
	Too sandy	0.00	Depth to	0.00	Too sandy	0.00
	Low content of	0.12			Depth to	0.00
	organic matter		Low strength	0.00	saturated zone	
	Too acid	0.50	Shrink-swell	0.90	Too acid	0.98
623A:			 		 	
Capitola	Fair		Poor		Poor	
	Low content of	0.88	Depth to	0.00	!	0.00
	organic matter	İ	saturated zone	İ	saturated zone	i
	-		i	i	'	
	Too acid	0.88			Hard to reclaim	0.03
	Too acid Droughty	0.88 0.99	 		Hard to reclaim (dense layer)	0.03

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
624A: Ossmer	 Fair Low content of organic matter Too acid Water erosion	 0.12 0.68 0.99	 Poor Depth to saturated zone	 0.00 	saturated zone	 0.00 0.68
631A: Giese	 Fair Low content of organic matter Too acid	 0.12 0.46	 Poor Depth to saturated zone	 0.00 	Poor Hard to reclaim (dense layer) Depth to saturated zone	0.00
632A: Aftad	 Fair Too acid Low content of organic matter Water erosion	0.68	 Fair Depth to saturated zone 	0.53	 Fair Depth to saturated zone 	0.53
632B: Aftad	 Fair Too acid Low content of organic matter Water erosion	 0.68 0.88 0.90	 Fair Depth to saturated zone	 0.53 	 Fair Depth to saturated zone	 0.53
632C: Aftad	 Fair Too acid Low content of organic matter Water erosion	0.68	 Fair Depth to saturated zone 	0.53	 Fair Depth to saturated zone Slope	0.53
634C: Drylanding	Poor Droughty Depth to bedrock Low content of organic matter Cobble content Too acid	0.00	 Poor Depth to bedrock 	1	 Poor Rock fragments Depth to bedrock 	 0.00 0.00
Beartree	Poor	0.00	saturated zone	:	Poor Depth to saturated zone Rock fragments Depth to bedrock	 0.00 0.00 0.00
Rock outcrop	 Not rated 	 	 Not rated 		 Not rated 	
635C: Drylanding	Poor Droughty Depth to bedrock Low content of organic matter Cobble content Too acid	0.00	 Poor Depth to bedrock 	0.00	 Poor Rock fragments Depth to bedrock 	 0.00 0.00

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as source of reclamation material		Potential as sou of roadfill	rce	Potential as sour	ce
	Rating class and	Value	Rating class and limiting features	Value	Rating class and	Value
	limiting features	<u> </u>	IIMICING Teacures	1	limiting features	1
635C:		İ		İ		
Beartree	Poor		Poor		Poor	
	Droughty	0.00	Depth to bedrock	0.00	Depth to	0.00
	Depth to bedrock	0.00	Depth to	0.00	saturated zone	
	Stone content	0.18	saturated zone		Rock fragments	0.00
	Cobble content	0.29	Cobble content	0.98	Depth to bedrock	0.00
Rock outcrop	Not rated	į	 Not rated 		Not rated	
648B:		i				
Sconsin	Fair	į	Fair	İ	Poor	İ
	Too acid	0.68	Depth to	0.14	Hard to reclaim	0.00
	Low content of	0.88	saturated zone		(dense layer)	
	organic matter				Depth to	0.14
	Water erosion	0.99			saturated zone	
669D:			 			
Fremstadt, stony	Poor	İ	Fair	İ	Poor	i
	Wind erosion	0.00	Slope	0.18	Slope	0.00
	Too sandy	0.47			Too sandy	0.47
	Too acid	0.54			Rock fragments	0.72
	Low content of	0.92		ļ		!
	organic matter		l I			
Pomroy	Poor		 Fair		Poor	
-	Wind erosion	0.00	Slope	0.18	Slope	0.00
	Low content of	0.12	Depth to	0.53	Too sandy	0.22
	organic matter		saturated zone		Depth to	0.53
	Too sandy	0.22			saturated zone	
	Too acid	0.54			Hard to reclaim	0.54
	Droughty	0.95			(dense layer)	
			 		Rock fragments	0.97
671B:			 			
Spoonerhill, stony	Poor	İ	Fair	İ	Poor	İ
	Too sandy	0.00	Depth to	0.53	Hard to reclaim	0.00
	Low content of	0.12	saturated zone	ļ	(dense layer)	!
	organic matter				Too sandy	0.00
	Too acid	0.68			Depth to	0.53
	Droughty	0.96	l I		saturated zone Hard to reclaim	0.98
				 	(rock fragments)	
		i		İ		İ
Spoonerhill	Poor		Fair		Poor	
	Too sandy	0.00	Depth to	0.53	Hard to reclaim	0.00
	Low content of	0.12	saturated zone		(dense layer)	
	organic matter				Too sandy	0.00
	Too acid	0.68			Depth to	0.53
	Droughty	0.96	l I		saturated zone	0.98
		i i		 	Hard to reclaim (rock fragments)	
	İ	İ	İ	į	j,	į
706A:			l December			
Winterfield	Poor Too sandy	0.00	Poor Depth to	0.00	Poor Too sandy	0.00
	Low content of	0.12	saturated zone	0.00	Depth to	0.00
	organic matter		Datarated Zone	İ	saturated zone	
	Droughty	0.80	! 	İ	Rock fragments	0.88
	Water erosion	0.99		İ	Kock IIagments	

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
706A: Totagatic	 Poor Too sandy Low content of organic matter Too acid Droughty	 0.00 0.12 0.68 0.98	: -	 0.00 	 Poor Too sandy Depth to saturated zone	 0.00 0.00
715A:		i		i		İ
Mora	Fair Low content of organic matter Too acid Water erosion	 0.12 0.84 0.99	saturated zone	 0.00 	Poor Depth to saturated zone Hard to reclaim (dense layer)	0.00
717B:		į		į	İ	i
Milaca	Fair Low content of organic matter Too acid Water erosion	 0.12 0.84 0.99	saturated zone	 0.53 	Poor Hard to reclaim (dense layer) Depth to saturated zone	 0.00 0.53
717C: Milaca	 Fair Low content of organic matter Too acid Water erosion	 0.12 0.84 0.99	 Fair Depth to saturated zone 	 0.53 	 Poor Hard to reclaim (dense layer) Depth to saturated zone Slope	 0.00 0.53 0.96
						ļ
720F: Haustrup	 Poor Depth to bedrock Droughty Too acid	!	 Poor Depth to bedrock Slope 	!	: -	 0.00 0.00 0.68
Lundeen	Fair	i	Poor	i	Poor	İ
	Too acid Depth to bedrock Low content of organic matter	0.50 0.54 0.88	Low strength	0.00 0.78 0.82	Depth to bedrock	0.00 0.54 0.88
Rock outcrop	Not rated	İ	Not rated	İ	Not rated	ĺ
726B: Sissabagama	Poor Wind erosion Too sandy Low content of organic matter Too acid	 0.00 0.00 0.12 0.68	: -	 0.89 	Poor Too sandy Depth to saturated zone 	 0.00 0.89
742B:	j	İ	İ	İ	į	İ
Milaca	Fair Low content of organic matter Too acid Water erosion	 0.12 0.84 0.99	Fair Depth to saturated zone	 0.53 	Poor Hard to reclaim (dense layer) Depth to saturated zone	0.00

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
742C: Milaca	Low content of	0.12	 Fair Depth to	0.53	!	 0.00
	organic matter Too acid Water erosion	0.84	saturated zone 	 	(dense layer) Depth to saturated zone Slope	0.53
742D:	 		 		 	
Milaca	Low content of organic matter	0.12	saturated zone	0.53	(dense layer)	0.00
	Too acid Water erosion 	0.84 0.99 	Slope 	0.98	Slope Depth to saturated zone 	0.00 0.53
755A:		į		į		į
Moppet	Fair Too acid Low content of organic matter 	 0.50 0.88 	Fair Depth to saturated zone 	 0.89 	Depth to saturated zone	 0.76 0.89 0.92
To a dom	 		 Parasa		 Parasa	
Fordum	Fair Low content of organic matter Water erosion	 0.88 0.99	Poor Depth to saturated zone 	0.00	saturated zone	 0.00 0.88
EE1.						
771A: Lenroot	Poor		 Fair		Poor	1
	Too sandy Wind erosion Droughty Low content of organic matter Too acid	0.00 0.00 0.11 0.12 	Depth to saturated zone	0.53	Rock fragments Depth to saturated zone	0.00 0.00 0.53 0.92
812B:	 		 		 	1
Mora	Fair Low content of organic matter Too acid	 0.12 0.84	Poor Depth to saturated zone 	0.00	Poor Depth to saturated zone Hard to reclaim (dense layer)	 0.00 0.94
9257.						
825A: Meehan	Too sandy	0.00		0.00		
	Wind erosion Droughty Low content of organic matter	0.00 0.03 0.12	1		saturated zone	0.00
	Too acid	0.50	 		 	

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as sour of topsoil	ce
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
896A:	 				 	İ
Wurtsmith	Poor		 Fair	 	 Poor	
	Too sandy	0.00	!	0.53	!	0.00
	Wind erosion	0.00	saturated zone		Depth to	0.53
	Droughty	0.00		İ	saturated zone	i
	Low content of	0.12	İ	į	Too acid	0.76
	organic matter					
	Too acid	0.20				
980A:					 	
Soderbeck	Fair	İ	Poor	İ	Poor	İ
	Droughty	0.04	Depth to	0.00	Hard to reclaim	0.00
	Low content of	0.12	saturated zone		(dense layer)	
	organic matter		Cobble content	0.01		0.00
	Too acid	0.92	Depth to bedrock	0.58	saturated zone	!
	Cobble content	0.95	l		Rock fragments	0.00
1070C:						
Fremstadt	Fair	İ	Good	İ	Fair	İ
	Too sandy	0.47			Too sandy	0.47
	Too acid	0.68			Rock fragments	0.72
	Low content of	0.92			Slope	0.84
	organic matter		l		l I	
Cress	 Fair		 Good		 Fair	
	Low content of	0.12	İ	į	Rock fragments	0.02
	organic matter				Too sandy	0.22
	Too sandy	0.22			Hard to reclaim	0.32
	Droughty	0.40			(rock fragments)	
	Too acid	0.54	 		Slope Too acid	0.96
	 		 		100 acid	
1070D:	į	į	İ	į	İ	į
Fremstadt	!		Fair	:	Poor	
	Too sandy	0.47	Slope	0.08	:	0.00
	Too acid Low content of	0.68	 		Too sandy	0.47
	organic matter	0.92			Rock fragments	0.72
		į	İ	į	İ	į
Cress	1 -		Fair	'	Poor	
	Low content of	0.12	Slope	0.32	Slope	0.00
	organic matter Too sandy	0.22	 	 	Rock fragments Too sandy	0.02
	Droughty	0.40	 	 	Hard to reclaim	0.32
	Too acid	0.54	 		(rock fragments)	
					Too acid	0.98
1000D						
1080B: Spoonerhill	 Poor		 Fair		 Poor	
- <u>2</u>	Too sandy	0.00	!	0.53	Hard to reclaim	0.00
	Low content of	0.12	saturated zone	İ	(dense layer)	i
	organic matter	i	İ	İ	Too sandy	0.00
	Too acid	0.68			Rock fragments	0.03
	Droughty	0.96			Depth to	0.53
	[1			saturated zone	
	!		[Hard to reclaim	0.98
		1	1	1	(rock fragments)	1

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as source of topsoil	
		Value	Rating class and	Value	Rating class and	Value
	limiting features	1	limiting features	1	limiting features	1
1080B:	 		 	l I	 	
Spoonerhill, stony	Poor	i	 Fair	İ	Poor	i
-	Too sandy	0.00	!	0.53	Hard to reclaim	0.00
	Low content of	0.12	saturated zone		(dense layer)	İ
	organic matter				Too sandy	0.00
	Too acid	0.68			Depth to	0.53
					saturated zone	
	Droughty	0.96			Hard to reclaim	
					(rock fragments)	
C					 Bain	
Cress	!	0.12	Good		Fair	0.02
	Low content of organic matter	0.12	 		Rock fragments Too sandy	0.02
	Too sandy	0.22	 		· -	0.32
	Droughty	0.40	! 		(rock fragments)	
	Too acid	0.54		İ	Too acid	0.98
	İ	İ	İ	İ		i
2002:	İ	İ	İ			İ
Udorthents, earthen						
dams	Not rated		Not rated		Not rated	
2015:					37 - 1 1 - 3	
Pits	Not rated		Not rated		Not rated	
2050:	 		 	 	 	
Landfill	Not rated		 Not rated		Not rated	i
		i		İ		i
3011A:	İ	į	İ	İ		i
Barronett	Fair		Poor		Poor	
	Low content of	0.12	Depth to	0.00	Depth to	0.00
	organic matter		saturated zone		saturated zone	
	Too acid	0.68				!
	Water erosion	0.90	 		ĺ	
3082E:	 		 	l I	 	
Braham	Poor		 Fair	i i	Poor	i
	Wind erosion	0.00	!	0.50	!	0.00
	Too sandy	0.04	<u> </u>	İ	Too sandy	0.04
	Low content of	0.12		ĺ		İ
	organic matter					
	Too acid	0.54				
		!		ļ		!
Shawano	!		Poor		Poor	
	Too sandy	0.00	Slope	0.00	· -	0.00
	Wind erosion Low content of	0.00	 	l I	Slope	0.00
	organic matter	0.12	 	l I	 	I
	Droughty	0.51	 	l I	 	i
	Too acid	0.68	 			i
		į	İ	j		i
3114A:						
Saprists	!	[Poor	!	Poor	
	Too acid	0.88	Depth to	0.00	: -	0.00
		1	saturated zone		saturated zone	
	 	1	 		Content of organic matter	0.00
	I .	1	I .	1	organic matter	1

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as source of reclamation material		Potential as sou of roadfill	irce	Potential as source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3114A: Aquents	Too sandy Low content of organic matter	 0.00 0.12	 Poor Depth to saturated zone	0.00	 Poor Too sandy Depth to saturated zone	 0.00 0.00
	Too acid Droughty	0.50 0.97 	 		Rock fragments	0.97
Aquepts	Fair Low content of organic matter Too acid	 0.12 0.68 	Poor Depth to saturated zone	0.00	Poor Depth to saturated zone Rock fragments Hard to reclaim (rock fragments)	 0.00 0.12 0.68
3125A:						İ
Meehan	Poor Too sandy Wind erosion Droughty Low content of organic matter Too acid	 0.00 0.00 0.06 0.12 	Poor Depth to saturated zone 	 0.00 	Poor Too sandy Depth to saturated zone Too acid	 0.00 0.00 0.88
3126A:			 		 	
Wurtsmith	Poor Too sandy Wind erosion Low content of organic matter Droughty Too acid	 0.00 0.00 0.12 0.15 0.50	Fair Depth to saturated zone	0.53	Poor Too sandy Depth to saturated zone Too acid Rock fragments	 0.00 0.53 0.76 0.97
3312B:			 		 	
Glendenning, very	İ	į	İ	İ	į	į
stony	Fair Low content of organic matter Too acid 	 0.12 0.68 	Poor Depth to saturated zone	 0.00 	Poor	 0.00 0.00 0.12 0.98
Glendenning	 Fair Low content of organic matter Too acid 	 0.12 0.68 	 Poor Depth to saturated zone 	 0.00 	Poor	 0.00 0.00 0.12 0.98
3336A: Fenander	 Fair Low content of organic matter Too acid	 0.12 0.99	 Poor Depth to saturated zone 	 0.00 	 Poor Depth to saturated zone 	 0.00

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3403A: Loxley	 Fair Too acid 	 0.50 	 Poor Depth to saturated zone	,	Poor Depth to saturated zone Content of organic matter Too acid	 0.00 0.00
Beseman	 Fair Too acid 	 0.61 	 Poor Depth to saturated zone 	 0.00 	Poor	0.00
Dawson	 Poor Too acid 	 0.00 	 Poor Depth to saturated zone 	 0.00 	Poor	0.00
3429B: Lara	Poor Too sandy Wind erosion Low content of organic matter Too acid	 0.00 0.00 0.12 0.84	saturated zone	 0.14 0.98	Depth to	 0.00 0.14
3429C: Lara	Poor Too sandy Wind erosion Low content of organic matter Too acid	 0.00 0.00 0.12 0.84	saturated zone	 0.14 0.98	Depth to	 0.00 0.14 0.96
3446A: Newson	 Poor Too sandy Low content of organic matter Too acid Droughty	 0.00 0.12 0.50 0.97		 0.00 	 Poor Too sandy Depth to saturated zone Rock fragments	0.00
3448B: Grettum	Poor Wind erosion Too sandy Low content of organic matter Too acid Droughty	 0.00 0.00 0.12 0.61 0.98	 Good 		 Poor Too sandy Too acid 	0.00

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3448C:			 		 	
Grettum	Poor		Good		Poor	
	Wind erosion	0.00			Too sandy	0.00
	Too sandy	0.00			Slope	0.96
	Low content of	0.12			Too acid	0.99
	organic matter					
	Too acid	0.61				
	Droughty	0.98				
						ļ
3510B:			 		 =- / -:	
Pomroy	!		Fair	!	Fair	10.00
	Wind erosion Low content of	0.00	Depth to saturated zone	0.53	:	0.22
	organic matter	0.12	saturated zone	l I	Depth to saturated zone	0.55
	Too sandy	0.22	 		Hard to reclaim	0.54
	Too acid	0.54	 		(dense layer)	
	Droughty	0.95	 		Rock fragments	0.97
				i	 	
Fremstadt	Poor	i	Good	i	Fair	i
	Wind erosion	0.00	İ	İ	Too sandy	0.47
	Too sandy	0.47		İ	Rock fragments	0.72
	Too acid	0.54				
	Low content of	0.92				
	organic matter	[
Fremstadt, stony	•		Good		Fair	
	Wind erosion	0.00	 		Too sandy	0.47
	Too sandy Too acid	0.47	İ		Rock fragments	0.72
	Low content of	0.92	 		 	
	organic matter	0.52	 		 	1
					 	i
3510C:		i		i		i
Pomroy	Poor	į	Fair	į	Fair	İ
	Wind erosion	0.00	Depth to	0.53	Too sandy	0.22
	Low content of	0.12	saturated zone		Depth to	0.53
	organic matter				saturated zone	
	Too sandy	0.22			1	0.54
	Too acid	0.54			(dense layer)	
	Droughty	0.95			Slope	0.84
					Rock fragments	0.97
Emomatodt	 Doom		 Good		 Poin	
Fremstadt	Wind erosion	0.00	Good	l I	Fair Too sandy	0.47
	Too sandy	0.47	 	l	Rock fragments	0.72
	Too acid	0.54	 		Slope	0.84
	Low content of	0.92	 		22000	
	organic matter				İ	İ
To complete the control of the contr						
Fremstadt, stony			Good		Fair	
	Wind erosion	0.00	 		Too sandy	0.47
	Too sandy	0.47	 		Rock fragments	0.72
	Too acid Low content of	0.54	 		Slope	0.84
		0.92		1	<u> </u>	1
	organic matter			1		

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as sou of roadfill	rce	Potential as sour	ce
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3511A:					 - -	
Bushville	1		Poor		Poor	
	Wind erosion Low content of	0.00		0.00	: -	0.00
	organic matter	0.12	saturated zone		saturated zone Hard to reclaim	0.10
	Too sandy	0.38	 		(dense layer)	10.10
	Droughty	0.77	 	i	Too sandy	0.38
	Too acid	0.84			l	
3516A:	[
Slimlake	Poor		Fair		Poor	
	Too sandy	0.00	Depth to	0.89	Too sandy	0.00
	Low content of	0.12	saturated zone		Rock fragments	0.12
	organic matter				Depth to	0.89
	Too acid	0.84			saturated zone	
	Droughty	0.93	 		 	
3625A:						
Lino	Poor		Poor		Poor	
	Too sandy	0.00	: -	0.00	· -	0.00
	Wind erosion	0.00	saturated zone	ļ	Depth to	0.00
	Low content of	0.12		!	saturated zone	
	organic matter				1	
	Droughty Too acid	0.67 0.74				
3626A:						
Crex	Poor		 Fair		Poor	1
CI GY	Too sandy	0.00	1	0.53	!	0.00
	Wind erosion	0.00	: -	0.33	Depth to	0.53
	Low content of	0.12		i	saturated zone	
	organic matter	i		i	Too acid	0.76
	Too acid	0.20		İ		i
	Droughty	0.99	į	į		į
3629B:	 		 			
Perida	Poor	ĺ	Fair	ĺ	Poor	İ
	Too sandy	0.00	Shrink-swell	0.99	Too sandy	0.00
	Wind erosion	0.00			Too acid	0.99
	Low content of	0.12				
	organic matter					
	Too acid	0.61	 			
3636B:						į
Plainbo	1	1	Poor		Poor	!
	Too sandy	0.00	Depth to bedrock	0.00		0.00
	Wind erosion	0.00				0.24
	Droughty	0.00			Depth to bedrock	
	Low content of	0.12		1	Too acid	0.76
	organic matter	0 50	 	1	 	1
	Too acid Depth to bedrock	0.50	 	1] 	I
	Debru to pearock	0.54	Į.	!	!	1

Table 19b.--Construction Materials--Continued

Map symbol and soil name	Potential as sour reclamation mate		Potential as source of roadfill		Potential as source of topsoil	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3636C:			 		 	
Plainbo	Poor		Poor		Poor	
	Too sandy	0.00	Depth to bedrock	0.00	Too sandy	0.00
	Wind erosion	0.00			Rock fragments	0.24
	Droughty	0.00			Depth to bedrock	0.54
	Low content of	0.12	ĺ	İ	Too acid	0.76
	organic matter	İ	İ	İ	Slope	0.96
	Too acid	0.50	İ	İ	i İ	İ
	Depth to bedrock	0.54	 	į	 -	į
M-W:					 	
Miscellaneous water	Not rated	İ	Not rated	İ	Not rated	
W:	[
Water	Not rated	İ	Not rated	İ	Not rated	İ

Table 20.--Water Management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes levees	, and	Aquifer-fed excavated ponds	
	 Rating class and limiting features	Value	 Rating class and limiting features	Value	 Rating class and limiting features	Value
3A: Totagatic	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Ponding Seepage	 1.00 1.00 0.81	 Very limited Cutbanks cave 	 1.00
Bowstring	 Very limited Seepage 	 1.00 		 1.00 1.00 1.00	 Very limited Cutbanks cave 	 1.00
Ausable	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Ponding Seepage	 1.00 1.00 0.58	 Very limited Cutbanks cave 	 1.00
12A: Makwa	 Very limited Seepage 	 1.00 	Very limited Depth to saturated zone Ponding Content of large stones Seepage	 1.00 1.00 0.74 	 Very limited Cutbanks cave Content of large stones	 1.00 0.11
22A: Comstock	 Somewhat limited Seepage 	 0.72 	Very limited Depth to saturated zone Piping	 1.00 0.96	 Very limited Cutbanks cave Slow refill	 1.00 0.28
27A: Scott Lake	 Very limited Seepage 	 1.00 	 Somewhat limited Depth to saturated zone Seepage	 0.86 0.50	 Very limited Cutbanks cave Depth to water	 1.00 0.06
28B: Haugen, very stony	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Seepage	 0.99 0.04	 Very limited No ground water 	1.00
Haugen	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Seepage	 0.99 0.04	 Very limited No ground water 	
Rosholt, very stony	 Very limited Seepage 	1.00	 Somewhat limited Seepage 	0.50	 Very limited No ground water 	1.00

Table 20.--Water Management--Continued

Map symbol and soil name	Pond reservoir areas		 Embankments, dikes levees	Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
28B: Rosholt	 Very limited Seepage	 1.00	 Somewhat limited Seepage	 0.50	 Very limited No ground water	 1.00	
28C: Haugen, very stony	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Seepage	 0.99 0.04	 Very limited No ground water 	1.00	
Haugen	Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Seepage	 0.99 0.04	 Very limited No ground water 		
Rosholt, very stony	 Very limited Seepage	1.00	 Somewhat limited Seepage	0.50	 Very limited No ground water	1.00	
Rosholt	 Very limited Seepage	1.00	 Somewhat limited Seepage	 0.50	 Very limited No ground water	1.00	
38A: Rosholt	 Very limited Seepage 	 1.00	 Somewhat limited Seepage 	 0.50	 Very limited No ground water 	 1.00	
38B: Rosholt	 Very limited Seepage 	 1.00	 Somewhat limited Seepage 	 0.50	 Very limited No ground water	 1.00	
38C: Rosholt	 Very limited Seepage 	 1.00	 Somewhat limited Seepage 	 0.50	 Very limited No ground water 	 1.00	
38D: Rosholt	 Very limited Seepage Slope	 1.00 0.04	 Somewhat limited Seepage	 0.50 	 Very limited No ground water	1.00	
42D: Amery	 Somewhat limited Seepage Slope	 0.72 0.04	 Somewhat limited Seepage 	 0.03 	 Very limited No ground water 	1.00	
43B: Antigo	 Very limited Seepage 	1.00	 Somewhat limited Seepage 	 0.50	 Very limited No ground water	 1.00	
43C: Antigo	 Very limited Seepage Slope	 1.00 0.01	 Somewhat limited Seepage 	 0.50 	 Very limited No ground water 		
63A: Crystal Lake	 Somewhat limited Seepage 	 0.72 	 Very limited Piping Depth to saturated zone	 1.00 0.99 	 Very limited Cutbanks cave Slow refill Depth to water	 1.00 0.96 0.24	

Table 20.--Water Management--Continued

Map symbol and soil name	 Pond reservoir ar 	eas	 Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
63B: Crystal Lake	 Somewhat limited Seepage 	 0.72 	 Very limited Piping Depth to saturated zone	 1.00 0.99	!	 1.00 0.96 0.24
63C: Crystal Lake	 Somewhat limited Seepage 	 0.72 	 Very limited Piping Depth to saturated zone	 1.00 0.99 	•	 1.00 0.96 0.54
64A: Totagatic	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Ponding Seepage	 1.00 1.00 0.81	 Very limited Cutbanks cave 	 1.00
Winterfield	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 0.64	 Very limited Cutbanks cave 	1.00
69C:						
Keweenaw	Seepage	1.00	Somewhat limited Seepage	0.11	Very limited No ground water	1.00
Sayner	 Very limited Seepage	 1.00	 Somewhat limited Seepage	 0.72	 Very limited No ground water	1.00
Vilas	 Very limited Seepage 	1.00	 Somewhat limited Seepage 	 0.86	 Very limited No ground water 	1.00
69E: Keweenaw	 Very limited Seepage Slope	 1.00 0.50	 Somewhat limited Seepage	 0.11 	 Very limited No ground water	1.00
Sayner	 Very limited Seepage Slope	 1.00 0.50	 Somewhat limited Seepage 	 0.72 	 Very limited No ground water 	1.00
Vilas	 Very limited Seepage Slope	 1.00 0.50	 Somewhat limited Seepage 	 0.86 	 Very limited No ground water 	1.00
82B: Cutaway	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone	 0.99 	 Very limited Cutbanks cave Slow refill Depth to water	 1.00 0.28 0.01
Branstad	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Piping	 0.99 0.88		 0.28 0.10 0.01

Table 20.--Water Management--Continued

Map symbol and soil name	Pond reservoir areas		Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
82C: Cutaway	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone	 0.99 	 Very limited Cutbanks cave Slow refill Depth to water	 1.00 0.28 0.01
Branstad	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Piping	 0.99 0.88	Cutbanks cave	 0.28 0.10 0.01
83A: Smestad	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Hard to pack Seepage	 1.00 0.36 0.06	 Very limited Cutbanks cave 	1.00
85B: Taylor	 Not limited 		 Very limited Depth to saturated zone Hard to pack	 1.00 0.99	 Very limited No ground water 	 1.00
85C: Taylor	 Not limited 		 Very limited Depth to saturated zone Hard to pack	 1.00 0.99	 Very limited No ground water 	 1.00
86A: Indus	 Not limited 		 Very limited Depth to saturated zone Hard to pack Ponding	 1.00 1.00 1.00	 Very limited No ground water 	 1.00
Alango	 Not limited 	 	 Very limited Depth to saturated zone Hard to pack	 1.00 1.00	 Very limited No ground water 	 1.00
89A: Wildwood	 Not limited 		 Very limited Depth to saturated zone Ponding Hard to pack	 1.00 1.00 0.99	 Somewhat limited Cutbanks cave 	0.10
96B: Karlsborg	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 0.72	 Very limited No ground water 	 1.00
96C: Karlsborg	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 0.72	 Very limited No ground water 	 1.00

Table 20.--Water Management--Continued

Map symbol and soil name	 Pond reservoir ar 	eas	 Embankments, dikes levees 	, and	 Aquifer-fed excavated pond	ls
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
96D: Karlsborg	 	 1.00 0.04	 Very limited Depth to saturated zone Seepage	 1.00 0.72	 	 1.00
100B: Menahga	 Very limited Seepage	 1.00	 Somewhat limited Seepage	 0.64	 Very limited No ground water	
100C: Menahga	 Very limited Seepage 	 1.00	 Somewhat limited Seepage 	 0.64	 Very limited No ground water	1.00
100D: Menahga	 Very limited Seepage Slope	 1.00 0.15	 Somewhat limited Seepage	 0.64 	 Very limited No ground water	1.00
120B: Kost	 Very limited Seepage 	 1.00	 Somewhat limited Seepage 	 0.82	 Very limited No ground water	 1.00
127D: Amery	 Somewhat limited Seepage Slope	 0.72 0.04	 Somewhat limited Seepage	 0.03	 Very limited No ground water	 1.00
Rosholt	 Very limited Seepage Slope	 1.00 0.04	 Somewhat limited Seepage 	 0.50 	 Very limited No ground water 	1.00
127E: Amery	 Somewhat limited Seepage Slope	 0.72 0.64	 Somewhat limited Seepage	0.03	 Very limited No ground water	1.00
Rosholt	 Very limited Seepage Slope 	 1.00 0.64	 Somewhat limited Seepage 	 0.50 	 Very limited No ground water 	 1.00
151A: Bluffton	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Ponding Piping	 1.00 1.00 0.90	 Somewhat limited Slow refill Cutbanks cave 	 0.28 0.10
152A: Alstad	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Piping Seepage	 1.00 0.85 0.01	 Somewhat limited Slow refill Cutbanks cave 	 0.28 0.10
154E: Cushing	 Somewhat limited Seepage Slope 	 0.72 0.36	 Somewhat limited Piping Seepage	 0.78 0.01	 Very limited No ground water 	 1.00

Table 20.--Water Management--Continued

Map symbol and soil name	 Pond reservoir ar 	eas	 Embankments, dikes levees	, and	Aquifer-fed excavated ponds	
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	1	limiting features	1
156B: Magnor, very stony	 Somewhat limited Seepage 	 0.72	 Very limited Depth to saturated zone	 1.00	 Very limited No ground water 	 1.00
	 		Piping Thin layer Seepage 	1.00 0.37 0.04	 	
Magnor	Somewhat limited Seepage	 0.72 	saturated zone Piping Thin layer	1.00 1.00 0.37	Very limited No ground water 	 1.00
	 		Seepage 	0.04	 	
157B: Freeon, very stony	 Somewhat limited Seepage 	0.02	 Very limited Depth to saturated zone Piping Thin layer Seepage	 1.00 1.00 0.37 0.04	 Very limited No ground water 	1.00
Freeon	 Somewhat limited Seepage 	 0.02 	 Very limited	į	 Very limited No ground water 	1.00
157C:	 		 		 	
Freeon, very stony	Somewhat limited Seepage -	 0.02 	Very limited Depth to saturated zone Piping Thin layer Seepage	 1.00 1.00 0.37 0.04	Very limited No ground water	 1.00
Freeon	 Somewhat limited Seepage 	 0.02 	 Very limited Depth to saturated zone Piping Thin layer Seepage	 1.00 1.00 0.37 0.04	 Very limited No ground water 	1.00
160A: Oesterle	 Verv limited		 Very limited	 	 Very limited	
GENERAL	Seepage	1.00	! -	1.00	: -	1.00
165B: Elderon	 Very limited Seepage 	 1.00 	 Somewhat limited Seepage Content of large stones	0.52	 Very limited No ground water 	1.00

Table 20.--Water Management--Continued

Map symbol and soil name	 Pond reservoir ar 	eas	 Embankments, dikes levees 	, and	Aquifer-fed excavated pond	Aquifer-fed excavated ponds	
	Rating class and	Value	Rating class and	Value	Rating class and	Value	
	limiting features		limiting features	<u>i</u>	limiting features	<u> </u>	
185B: Tradelake	 Verv limited		 Very limited	 	 Very limited	 	
	Seepage	1.00	: -	1.00	: -	1.00	
Taylor	 Not limited - -		 Very limited Depth to saturated zone Hard to pack	 1.00 0.99	 Very limited No ground water 	1.00	
185C:							
Tradelake	Very limited Seepage 	 1.00 	Very limited Depth to saturated zone Seepage	 1.00 0.72	Very limited No ground water 	 1.00 	
Taylor	 Not limited 	 	 Very limited Depth to saturated zone Hard to pack	 1.00 0.97	 Very limited No ground water 	1.00	
		1				ļ	
185D: Tradelake	 		 Very limited		 Very limited		
Traderake	Seepage	1.00	Depth to saturated zone	0.99	: -	1.00	
	Slope	0.09	Seepage	0.72	l I		
Taylor	 Somewhat limited Slope 	0.09	 Very limited Depth to saturated zone Hard to pack	 1.00 0.97	 Very limited No ground water 	1.00	
		İ					
185E: Tradelake	 Very limited Seepage	1.00	 Very limited Depth to saturated zone	 0.99	 Very limited No ground water	1.00	
	Slope	0.50	!	0.72			
Taylor	 Somewhat limited Slope 	 0.50 	 Very limited Depth to saturated zone Hard to pack	 1.00 0.97	 Very limited No ground water 	1.00	
189A:	 		 		 	l I	
Siren	 Somewhat limited Seepage 	0.72	 Very limited Depth to saturated zone	 1.00 	Somewhat limited Slow refill Cutbanks cave	0.28	
			Hard to pack	0.78			
193A: Minocqua	 Very limited Seepage	 1.00	 Very limited Depth to	 1.00	 Very limited Cutbanks cave	 1.00	
			saturated zone Ponding Seepage	 1.00 0.50			

Table 20.--Water Management--Continued

Map symbol and soil name	Pond reservoir areas		Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
337A: Plover	 Somewhat limited Seepage 	 0.72 	Very limited Depth to saturated zone Piping	 1.00 1.00	Very limited Cutbanks cave Slow refill	 1.00 0.28
368B: Mahtomedi	 Very limited Seepage	1.00	 Somewhat limited Seepage	 0.64	 Very limited No ground water	1.00
Cress	 Very limited Seepage 	1.00	 Somewhat limited Seepage 	 0.50	 Very limited No ground water	1.00
368C: Mahtomedi	 Very limited Seepage	1.00	 Somewhat limited Seepage	 0.64	 Very limited No ground water	1.00
Cress	 Very limited Seepage	1.00	 Somewhat limited Seepage	0.50	 Very limited No ground water	1.00
368D: Mahtomedi	 Very limited Seepage Slope	 1.00 0.12	 Somewhat limited Seepage	 0.64	 Very limited No ground water	1.00
Cress	 Very limited Seepage Slope	 1.00 0.12	 Somewhat limited Seepage 	 0.50 	 Very limited No ground water 	 1.00
368E: Mahtomedi	 Very limited Seepage Slope	 - 1.00 0.50	 Somewhat limited Seepage	 0.64 	 Very limited No ground water	1.00
Cress	 Very limited Seepage Slope	 1.00 0.50	 Somewhat limited Seepage 	 0.50 	 Very limited No ground water 	 1.00
380B: Cress	 Very limited Seepage	1.00	 Somewhat limited Seepage	 0.50	 Very limited No ground water	1.00
Rosholt	 Very limited Seepage	1.00	Somewhat limited Seepage	0.50	 Very limited No ground water	1.00
380C: Cress	 Very limited Seepage	1.00	 Somewhat limited Seepage	 0.50	 Very limited No ground water	1.00
Rosholt	 Very limited Seepage	1.00	 Somewhat limited Seepage	0.50	 Very limited No ground water	1.00
380D: Cress	 Very limited Seepage Slope	 1.00 0.15	 Somewhat limited Seepage	 0.50	 Very limited No ground water 	 1.00
Rosholt	 Very limited Seepage Slope	 1.00 0.15	 Somewhat limited Seepage 	 0.50 	 Very limited No ground water 	1.00

Table 20.--Water Management--Continued

Map symbol and soil name	 Pond reservoir ar 	eas	 Embankments, dikes levees	, and	Aquifer-fed	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
383B: Mahtomedi	 Very limited Seepage 	 1.00	 Somewhat limited Seepage 	 0.64	 Very limited No ground water 	 1.00
383C: Mahtomedi	 Very limited Seepage	1.00	 Somewhat limited Seepage	0.64	 Very limited No ground water	1.00
383D: Mahtomedi	 Very limited Seepage Slope	 1.00 0.15	 Somewhat limited Seepage 	 0.64	 Very limited No ground water 	1.00
392C: Rockmarsh	 Very limited Seepage Slope 	 1.00 0.01 	Very limited Depth to saturated zone Content of large stones Seepage Thin layer	 1.00 0.88 0.12 0.11	 Very limited No ground water 	 1.00
Dairyland	 Very limited Seepage Slope 	 1.00 0.01 	 Very limited Depth to saturated zone Content of large stones Seepage Thin layer	 0.99 0.60 0.32 0.11	 Very limited No ground water 	 1.00
Makwa	 Very limited Seepage 	 1.00 	Very limited Depth to saturated zone Seepage Content of large stones	 1.00 0.65 0.11	Very limited Cutbanks cave Content of large stones	 1.00 0.11
396B: Friendship	 Very limited Seepage 	 1.00	 Somewhat limited Seepage 	 0.86	 Very limited Cutbanks cave Depth to water	 1.00 0.96
Wurtsmith	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 0.99 0.82	 Very limited Cutbanks cave Depth to water	 1.00 0.01
Grayling	 Very limited Seepage 	1.00	 Somewhat limited Seepage 	 0.64	 Very limited No ground water 	 1.00
397A: Perchlake	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 0.64	 Very limited Cutbanks cave 	1.00
399B: Grayling	 Very limited Seepage 	1.00	 Somewhat limited Seepage 	 0.64	 Very limited No ground water	1.00

Table 20.--Water Management--Continued

Map symbol and soil name	 Pond reservoir ar 	eas	Embankments, dikes levees	, and	Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						1
399C: Grayling	 Very limited Seepage	 1.00	 Somewhat limited Seepage 	 0.64	 Very limited No ground water	 1.00
399D: Grayling	 Very limited Seepage Slope	 1.00 0.15	 Somewhat limited Seepage 	 0.64 	 Very limited No ground water	1.00
406A: Loxley	 Very limited Seepage 	 1.00 	 Very limited Content of organic matter Depth to saturated zone Piping Ponding	 1.00 1.00 1.00	 Somewhat limited Cutbanks cave 	0.10
407A: Seelyeville	 Very limited Seepage 	 1.00 	 Very limited Content of organic matter Depth to saturated zone Piping Ponding	 1.00 1.00 1.00	 Somewhat limited Cutbanks cave 	 0.10
Markey	 Very limited Seepage 	 	 Very limited Depth to saturated zone Ponding Seepage	 1.00 1.00 0.64	 Very limited Cutbanks cave 	 1.00
410A: Seelyeville	 Very limited Seepage 	 1.00 	Very limited Content of organic matter Depth to saturated zone Piping Ponding	 1.00 1.00 1.00	 Somewhat limited Cutbanks cave 	0.10
Cathro	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Ponding Seepage	 1.00 1.00 0.03	 Somewhat limited Cutbanks cave 	 0.10
419A: Seelyeville	 Very limited Seepage 	 1.00 	Very limited Content of organic matter Depth to saturated zone Piping Ponding	 1.00 1.00 1.00 1.00	 Somewhat limited Cutbanks cave 	0.10

Table 20.--Water Management--Continued

Map symbol and soil name	Pond reservoir areas		 Embankments, dikes levees 	, and	Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
419A: Cathro	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Somewhat limited Cutbanks cave 	 0.10
Markey	 Very limited Seepage 	 1.00 	Seepage Very limited Depth to saturated zone Ponding Seepage	0.03 1.00 1.00 0.64	 Very limited Cutbanks cave 	1.00
421A: Dora	 Very limited Seepage 	 1.00 	 Very limited Content of organic matter Depth to saturated zone Ponding	 1.00 1.00 	 Very limited No ground water 	 1.00
Markey	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Ponding Seepage	 1.00 1.00 0.64	 Very limited Cutbanks cave 	1.00
Seelyeville	 Very limited Seepage 	 1.00 		 1.00 1.00 1.00 1.00	 Somewhat limited Cutbanks cave 	0.10
422A: Seelyeville	 Very limited Seepage 	 1.00 	 Very limited Content of organic matter Depth to saturated zone Piping Ponding	 1.00 1.00 1.00	 Somewhat limited Cutbanks cave 	0.10
Cathro	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Ponding Seepage	 1.00 1.00 0.03	 Somewhat limited Cutbanks cave 	 0.10
Rondeau	 Very limited Seepage 	 1.00 	 Very limited Content of organic matter Depth to saturated zone Ponding	 1.00 1.00 1.00	 Somewhat limited Cutbanks cave 	 0.10
426B: Emmert	 Very limited Seepage 	 1.00 	 Somewhat limited Seepage 	 0.86	 Very limited No ground water 	1.00

Table 20.--Water Management--Continued

Map symbol and soil name	Pond reservoir areas 		Embankments, dikes, and levees		Aquifer-fed excavated ponds		
	Rating class and	Value	Rating class and	Value	Rating class and	Value	
	limiting features	<u> </u>	limiting features		limiting features		
426B:	 		 		 		
Mahtomedi	 Very limited Seepage	1.00	 Somewhat limited Seepage	0.64	 Very limited No ground water	1.00	
Menahga	 Very limited Seepage	1.00	 Somewhat limited Seepage	0.64	 Very limited No ground water	1.00	
426C:	 		 		 		
Emmert	Very limited Seepage	1.00	Somewhat limited Seepage	0.86	Very limited No ground water	1.00	
Mahtomedi	 Very limited Seepage	1.00	Somewhat limited Seepage	0.64	 Very limited No ground water	1.00	
Menahga	 Very limited Seepage	1.00	 Somewhat limited Seepage	 0.64	 Very limited No ground water	1.00	
426D:	 		 		 	1	
Emmert	Very limited Seepage Slope	 1.00 0.15	Somewhat limited Seepage	 0.86 	 Very limited No ground water	1.00	
Mahtomedi	 Very limited Seepage Slope	 1.00 0.15	 Somewhat limited Seepage 	 0.64 	 Very limited No ground water 	 1.00	
Menahga	 Very limited Seepage Slope	 1.00 0.15	 Somewhat limited Seepage 	 0.64 	 Very limited No ground water 	 1.00	
430A:	 		 		 		
Freya	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 0.20	 Very limited No ground water 	1.00	
439B:							
Graycalm	Very limited Seepage	1.00	Somewhat limited Seepage	0.64	Very limited No ground water	1.00	
Menahga	Very limited Seepage	1.00	Somewhat limited Seepage	0.64	 Very limited No ground water	1.00	
439C:	 		 		 		
Graycalm	Very limited Seepage	1.00	Somewhat limited Seepage	0.64	Very limited No ground water	1.00	
Menahga	 Very limited Seepage	1.00	 Somewhat limited Seepage	0.64	 Very limited No ground water	1.00	
439D:	 		[[
Graycalm	Very limited Seepage Slope	 1.00 0.15	Somewhat limited Seepage	0.64	 Very limited No ground water	1.00	
Menahga	 Very limited Seepage Slope	 1.00 0.15	 Somewhat limited Seepage	 0.64	 Very limited No ground water	1.00	

Table 20.--Water Management--Continued

Map symbol and soil name	 Pond reservoir ar 	eas	 Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	<u>i </u>	limiting features	<u> </u>	limiting features	<u>i</u>
440.0						
442C: Haugen	 Somewhat limited		 Very limited		 Very limited	l I
	Seepage	0.72		0.99	No ground water	1.00
	İ	İ	saturated zone	ĺ	İ	Ì
			Seepage	0.04		
Greenwood	 Verv limited		 Very limited		 Somewhat limited	1
	Seepage	1.00	: -	1.00		0.10
	[organic matter		!	
			Depth to	1.00		
	 		saturated zone Piping	1.00	 	
		i	Ponding	1.00		İ
	İ	İ	İ	ĺ	İ	Ì
443D:						
Amery	Seepage	0.72	Somewhat limited Seepage	0.03	Very limited No ground water	1.00
	Slope	0.28				
	[[!	
Greenwood	: -	1	Very limited		Somewhat limited	
	Seepage 	1.00	Content of organic matter	1.00	Cutbanks cave	0.10
		i	Depth to	1.00		İ
	İ	İ	saturated zone	ĺ	İ	Ì
			Piping	1.00		
	 		Ponding	1.00	 	1
459A:		i		i		İ
Loxley	Very limited	1	Very limited		Somewhat limited	
	Seepage	1.00	!	1.00	Cutbanks cave	0.10
	 	l	organic matter Depth to	1.00	 	I I
		i	saturated zone	i		i
	!	1	Piping	1.00	!	
	 		Ponding	1.00	l	
Daisybay	 Very limited	i	 Very limited	i	 Somewhat limited	i i
	Seepage	1.00		1.00	Cutbanks cave	0.10
			saturated zone			1
	 		Ponding	1.00	 	l I
Dawson	 Very limited	i	 Very limited	i	 Very limited	
	Seepage	1.00	Content of	1.00	Cutbanks cave	1.00
			organic matter			
	 		Depth to saturated zone	1.00	 	1
		i	Ponding	1.00		İ
		İ	Seepage	0.64		
461A:	 		 		 	
Bowstring	 Very limited		 Very limited		 Very limited	
-	Seepage	1.00		1.00		1.00
			organic matter			1
	 		Depth to saturated zone	1.00	 	
	 		saturated zone Ponding	1.00	 	
	İ	i	, , , <u>, , , , , , , , , , , , , , , , </u>	1	İ	i

Table 20.--Water Management--Continued

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes	, and	Aquifer-fed excavated pond	ls
	Rating class and	Value	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	<u>i</u>	limiting features	<u>i</u>
465A: Newson	 Very limited Seepage	 1.00	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Cutbanks cave 	 1.00
Meehan	 Very limited Seepage	 1.00	Seepage Very limited	0.82	 Very limited Cutbanks cave	 1.00
469E: Bigisland	 Very limited		Seepage Somewhat limited	0.82	 Very limited	
-	Seepage Slope 	1.00 0.55 	Content of large stones Seepage Thin layer		No ground water	1.00
Milaca	Somewhat limited Seepage Slope 	 0.72 0.55 	Very limited Depth to saturated zone Thin layer Seepage	 0.99 0.11 0.03	Very limited No ground water 	 1.00
471B: Dairyland	 Very limited Seepage 	 1.00 	Very limited Depth to saturated zone Content of large stones Seepage Thin layer	 0.99 0.60 0.32 0.11	 Very limited No ground water 	 1.00
Emmert	 Very limited Seepage	1.00	 Somewhat limited Seepage	 0.86	 Very limited No ground water 	1.00
471C: Dairyland	 Very limited Seepage Slope 	 1.00 0.01 	Very limited Depth to saturated zone Content of large stones Seepage Thin layer	 0.99 0.60 0.32 0.11	 Very limited No ground water 	 1.00
Emmert	 Very limited Seepage Slope	 1.00 0.01	 Somewhat limited Seepage	 0.86 	 Very limited No ground water 	 1.00
472A: Rockmarsh	 Very limited Seepage 	 1.00 	Very limited Depth to saturated zone Content of large stones Seepage Thin layer	 1.00 0.88 0.12 0.11	 Very limited No ground water 	 1.00

Table 20.--Water Management--Continued

Map symbol and soil name	 Pond reservoir ar 	eas	 Embankments, dikes levees 	, and	Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
472A: Clemens	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage Content of large stones	 1.00 0.25 0.23	 Very limited Cutbanks cave Content of large stones	 1.00 0.23
473A: Dairyland	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Content of large stones Seepage Thin layer	 0.99 0.60 0.32 0.11	 Very limited No ground water 	 1.00
Skog	 Very limited Seepage 	 1.00 		 0.86 0.86	 Very limited Cutbanks cave Depth to water	 1.00 0.06
484A: Greenwood	 Very limited Seepage 	 1.00 	 Very limited Content of organic matter Depth to saturated zone Piping Ponding	 1.00 1.00 1.00	 Somewhat limited Cutbanks cave 	 0.10
Beseman	 Very limited Seepage 	 1.00 	Very limited Content of organic matter Depth to saturated zone Ponding	 1.00 1.00 1.00	 Somewhat limited Cutbanks cave 	 0.10
485C: Lupton	 Very limited Seepage 	 1.00 	 Very limited Content of organic matter Depth to saturated zone Piping	 1.00 1.00	 Somewhat limited Cutbanks cave 	 0.10
Tawas	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Ponding Seepage	 1.00 1.00 0.20	 Very limited Cutbanks cave 	 1.00
495B: Karlsborg	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 0.72	 Very limited No ground water 	1.00
Grettum	 Very limited Seepage 	 1.00 	 Somewhat limited Seepage 	 0.58 	 Very limited Cutbanks cave Depth to water	 1.00 0.96

Table 20.--Water Management--Continued

Map symbol and soil name	Pond reservoir areas 		 Embankments, dikes levees	Embankments, dikes, and levees		Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
495B: Perida	 Very limited Seepage 	 1.00	 Somewhat limited Seepage Depth to saturated zone	 0.72 0.09	 Very limited No ground water 	 1.00 	
495C: Karlsborg	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 0.72	 Very limited No ground water 	 1.00 	
Grettum	 Very limited Seepage	1.00	 Somewhat limited Seepage	0.58	 Very limited Cutbanks cave Depth to water	 1.00 0.96	
Perida	 Very limited Seepage 	 1.00 	 Somewhat limited Seepage Depth to saturated zone	 0.72 0.09 	 Very limited No ground water 	 1.00 	
495D: Karlsborg	 Very limited Seepage Slope	 1.00 0.15	 Very limited Depth to saturated zone Seepage	 1.00 0.72	 Very limited No ground water 	 1.00 	
Grettum	 Very limited Seepage Slope	 1.00 0.15	 Somewhat limited Seepage 	 0.58 	 Very limited Cutbanks cave Depth to water	 1.00 0.96	
Perida	 Very limited Seepage Slope 	 1.00 0.15	 Somewhat limited Seepage Depth to saturated zone	 0.72 0.09 	 Very limited No ground water 	 1.00 	
496B: Karlsborg	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 0.72	 Very limited No ground water 	 1.00 	
496C: Karlsborg	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 0.72	 Very limited No ground water 	 1.00 	
496D: Karlsborg	 Very limited Seepage Slope 	 1.00 0.15 	 Very limited Depth to saturated zone Seepage	 1.00 0.72	 Very limited No ground water 	 1.00 	
497A: Meenon	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 0.72	 Very limited No ground water 	 1.00 	

Table 20.--Water Management--Continued

Map symbol and soil name	 Pond reservoir ar 	eas	 Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
521A: Dody	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Ponding Seepage	 1.00 1.00 0.13	 Very limited No ground water 	 1.00
523A: Nokasippi	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Ponding Thin layer Seepage	 1.00 1.00 0.26 0.14	 Very limited Cutbanks cave 	1.00
529B: Perida	 Very limited Seepage 	 1.00 	 Somewhat limited Seepage Depth to saturated zone	 0.72 0.09	 Very limited No ground water	1.00
531A: Stengel	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Thin layer Seepage	 1.00 1.00 0.82	 Very limited No ground water 	1.00
542B: Haugen, very stony	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Seepage	 0.99 0.04	 Very limited No ground water 	1.00
Haugen	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Seepage	 0.99 0.04	 Very limited No ground water 	 1.00
542C: Haugen, very stony	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Seepage	 0.99 0.04	 Very limited No ground water 	1.00
Haugen	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Seepage	 0.99 0.04	 Very limited No ground water 	 1.00
544F: Menahga	 Very limited Seepage Slope	 - 1.00 0.82	 Somewhat limited Seepage	 0.64	 Very limited No ground water	1.00
Mahtomedi	 Very limited Seepage Slope 	 1.00 0.82	 Somewhat limited Seepage 	 0.64 	 Very limited No ground water 	 1.00

Table 20.--Water Management--Continued

Map symbol and soil name	 Pond reservoir ar 	eas	Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
553B: Branstad	 Somewhat limited Seepage 	 0.72 	Very limited Depth to saturated zone Piping	 0.99 0.88	 Somewhat limited Slow refill Cutbanks cave Depth to water	 0.28 0.10 0.01
553C: Branstad	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Piping	 0.99 0.88	 Somewhat limited Slow refill Cutbanks cave Depth to water	 0.28 0.10 0.01
553D: Branstad	 Somewhat limited Seepage Slope	 0.72 0.04	 Very limited Depth to saturated zone Piping	 0.99 0.88		 0.28 0.10 0.01
555A: Fordum	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Ponding Seepage	 1.00 1.00 0.53	 Very limited Cutbanks cave 	1.00
557B: Shawano	 Very limited Seepage 	1.00	 Somewhat limited Seepage 	 0.36	 Very limited No ground water	1.00
557C: Shawano	 Very limited Seepage	1.00	 Somewhat limited Seepage	 0.36	 Very limited No ground water	1.00
557D: Shawano	 Very limited Seepage Slope	 1.00 0.15	 Somewhat limited Seepage 	 0.36 	 Very limited No ground water	1.00
586A: Chelmo	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Ponding Seepage	 1.00 1.00 0.86	 Very limited No ground water 	 1.00
600A: Haplosaprists	 Not rated 	 	 Not rated 	 	 Not rated 	
Psammaquents	Not rated		Not rated	<u> </u> 	Not rated	
615B: Cress	 Very limited Seepage 	 1.00	 Somewhat limited Seepage 	 0.50 	 Very limited No ground water 	 1.00
615C: Cress	 Very limited Seepage 	1.00	 Somewhat limited Seepage 	 0.50	 Very limited No ground water	 1.00

Table 20.--Water Management--Continued

Map symbol and soil name	 Pond reservoir ar 	eas	 Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and limiting features	Value	Rating class and	Value	Rating class and limiting features	Value
615D:				İ		İ
	 Very limited Seepage Slope	 1.00 0.15	 Somewhat limited Seepage	 0.50 	 Very limited No ground water	1.00
620C:	 		 		 	
Lundeen	Somewhat limited Depth to bedrock Seepage	1	 Piping Thin layer	 1.00 0.86	 Very limited No ground water 	1.00
Haustrup	 Very limited Depth to bedrock 	1.00	 Very limited Piping Thin layer	 1.00 1.00	 Very limited No ground water 	1.00
Rock outcrop	 Not rated		 Not rated 	 	 Not rated	
621A: Bjorkland	 Very limited Seepage	1.00	 Very limited Depth to	1.00	 Very limited Cutbanks cave	1.00
	 	 	saturated zone Ponding Seepage 	 1.00 0.30	 	
623A:				į		
Capitola	Somewhat limited Seepage 	 0.72 	Very limited Depth to saturated zone		Very limited No ground water 	1.00
	 	 	Piping Ponding Thin layer	1.00 1.00 0.86 0.04	 	
	 		Seepage 	0.04	 	
624A: Ossmer	 Very limited Seepage	 1.00	 Very limited Depth to	 1.00	 Very limited Cutbanks cave	1.00
	 		saturated zone Seepage	0.50	 	
631A: Giese	 Somewhat limited		 Very limited	 	 Very limited	
	Seepage	0.72	Depth to saturated zone	1.00	No ground water	1.00
	 		Ponding Seepage	1.00	 	
632A: Aftad	 Somewhat limited		 Very limited	 	 Very limited	
	Seepage 	0.72	: -	1.00	: -	1.00 0.28 0.24
632B: Aftad			 Very limited		 Very limited	
	Seepage 	0.72 	Piping Depth to saturated zone	1.00 0.99 	Cutbanks cave Slow refill Depth to water	1.00 0.28 0.24

Table 20.--Water Management--Continued

Map symbol and soil name	Pond reservoir ar 	eas	Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
632C: Aftad	 Somewhat limited Seepage 	 0.72 	 Very limited Piping Depth to saturated zone	 1.00 0.99		 1.00 0.96 0.54
634C: Drylanding	 Very limited Depth to bedrock 	1	 Very limited Thin layer Content of large stones	1.00	 Very limited No ground water 	 1.00
Beartree	 Very limited Depth to bedrock 	 1.00 	Very limited Depth to saturated zone Thin layer Content of large stones Ponding Piping	1.00 1.00	Cutbanks cave	 1.00 1.00 0.10
Rock outcrop	 Not rated		 Not rated		 Not rated	
635C: Drylanding	 Very limited Depth to bedrock 	1	 Very limited Thin layer Content of large stones	1.00	 Very limited No ground water 	 1.00
Beartree	 Very limited Depth to bedrock 	:	Very limited Depth to saturated zone Thin layer Content of large stones Ponding Piping	1.00 1.00	stones Cutbanks cave	 1.00 1.00 0.10
Rock outcrop	 Not rated		 Not rated		 Not rated	
648B: Sconsin	 	 1.00 	 Very limited Depth to saturated zone Piping Thin layer Seepage		 Very limited No ground water 	 1.00
669D: Fremstadt, stony	 Very limited Seepage Slope	 - 1.00 0.18	 Somewhat limited Seepage 	 0.07 	 Very limited No ground water 	 1.00
Pomroy	 Very limited Seepage Slope 	 1.00 0.18 	 Very limited Depth to saturated zone Thin layer Seepage	 0.99 0.11 0.08	 Very limited No ground water 	 1.00

Table 20.--Water Management--Continued

Map symbol and soil name	 Pond reservoir ar 	eas	 Embankments, dikes levees 	, and	 Aquifer-fed excavated pond	ls
	Rating class and	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
671B: Spoonerhill, stony	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 0.99 0.11	 Very limited No ground water 	 1.00
Spoonerhill	 Very limited Seepage 	 1.00 	 Very limited	 0.99 0.11	 Very limited No ground water	1.00
706A: Winterfield	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 0.64	 Very limited Cutbanks cave 	1.00
Totagatic	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Ponding Seepage	 1.00 1.00 0.81	 Very limited Cutbanks cave 	 1.00
715A: Mora	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Piping Thin layer Seepage	 1.00 1.00 0.11 0.03	 Very limited No ground water 	 1.00
717B: Milaca	 Somewhat limited Seepage 	 0.72 	 Very limited Piping Depth to saturated zone Thin layer Seepage	 1.00 0.99 0.11 0.03	 Very limited No ground water 	 1.00
717C: Milaca	 Somewhat limited Seepage 	 0.72 	 Very limited Piping Depth to saturated zone Thin layer Seepage	 1.00 0.99 0.11 0.03	 Very limited No ground water 	 1.00
720F: Haustrup	 Very limited Depth to bedrock Slope	1	 Very limited Piping Thin layer	 1.00 1.00	 Very limited No ground water	1.00
Lundeen	 Somewhat limited Depth to bedrock Seepage Slope		 Very limited Piping Thin layer	 1.00 0.86	 Very limited No ground water 	 1.00
Rock outcrop	 Not rated 	 	 Not rated 	 	 Not rated 	

Table 20.--Water Management--Continued

Map symbol and soil name	Pond reservoir ar	eas	 Embankments, dikes levees	, and	Aquifer-fed excavated ponds	
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
726B: Sissabagama	 Very limited Seepage 	 1.00 	 Somewhat limited Depth to saturated zone Seepage	 0.86 0.36	 Very limited Cutbanks cave Depth to water	 1.00 0.24
742B: Milaca	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Thin layer Seepage	 0.99 0.11 0.03	 Very limited No ground water 	 1.00
742C: Milaca	 Somewhat limited Seepage 	 0.72 	Very limited Depth to saturated zone Thin layer Seepage	0.99	 Very limited No ground water 	1.00
742D: Milaca	 Somewhat limited Seepage Slope	 0.72 0.04 	 Very limited Depth to saturated zone Thin layer Seepage	 0.99 0.11 0.03	 Very limited No ground water 	1.00
755A: Moppet	 Very limited Seepage 	 1.00 	 Somewhat limited Depth to saturated zone Seepage	 0.86 0.42	 Very limited Cutbanks cave Depth to water	 1.00 0.06
Fordum	 Very limited Seepage 	 	 Very limited Depth to saturated zone Ponding Seepage	 1.00 1.00 0.53	 Very limited Cutbanks cave 	1.00
771A: Lenroot	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 0.99 0.54	 Very limited Cutbanks cave Depth to water 	 1.00 0.01
812B: Mora	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Thin layer Seepage	 1.00 0.11 0.03	 Very limited No ground water 	 1.00
825A: Meehan	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 0.82	 Very limited Cutbanks cave 	 1.00

Table 20.--Water Management--Continued

Map symbol and soil name	 Pond reservoir ar 	eas	 Embankments, dikes levees 	, and	Aquifer-fed excavated pond	ls
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
896A: Wurtsmith	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 0.99 0.82	 Very limited Cutbanks cave Depth to water	 1.00 0.01
980A: Soderbeck	 Very limited Seepage Depth to bedrock 	 1.00 0.10 	Very limited Depth to saturated zone Seepage Content of large stones Thin layer	 1.00 0.58 0.45 	 Very limited No ground water 	1.00
1070C: Fremstadt	 Very limited Seepage	1.00	 Somewhat limited Seepage	0.07	 Very limited No ground water	1.00
Cress	 Very limited Seepage	1.00	 Somewhat limited Seepage	 0.50	 Very limited No ground water	1.00
1070D: Fremstadt	 Very limited Seepage Slope	 1.00 0.21	 Somewhat limited Seepage 	 0.07	 Very limited No ground water 	1.00
Cress	 Very limited Seepage Slope	 1.00 0.15	 Somewhat limited Seepage 	 0.50 	 Very limited No ground water 	 1.00
1080B: Spoonerhill	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 0.99 0.10	 Very limited No ground water 	1.00
Spoonerhill, stony	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 0.99 0.11	 Very limited No ground water 	 1.00
Cress	 Very limited Seepage 	1.00	 Somewhat limited Seepage 	0.50	 Very limited No ground water	1.00
2002: Udorthents, earthen dams	 Not rated		 Not rated		 Not rated	
2015: Pits	 Not rated 	 	 Not rated 	 	 Not rated 	İ İ
2050: Landfill	 Not rated 	 	 Not rated 	 	 Not rated 	
3011A: Barronett	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Piping Ponding	 1.00 1.00 1.00	 Very limited Cutbanks cave Slow refill 	 1.00 0.28

Table 20.--Water Management--Continued

Map symbol and soil name	 Pond reservoir ar 	eas	 Embankments, dikes levees	, and	 Aquifer-fed excavated pond	ls
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3082E: Braham	 Very limited Seepage Slope	 1.00 0.12	 Somewhat limited Seepage	 0.10	 Very limited No ground water	 1.00
Shawano	 Very limited Seepage Slope 	 1.00 0.32	 Somewhat limited Seepage 	 0.36 	 Very limited No ground water 	 1.00
3114A: Saprists	 Very limited Seepage 	 1.00 	Very limited Content of organic matter Ponding Depth to saturated zone Piping	 1.00 1.00 1.00 	 Somewhat limited Cutbanks cave 	 0.10
Aquents	 Very limited Seepage 	 1.00 	 Very limited Ponding Depth to saturated zone Seepage	 1.00 1.00 0.82	 Very limited Cutbanks cave 	1.00
Aquepts	 Very limited Seepage 	 1.00 	 Very limited Ponding Depth to saturated zone Seepage	 1.00 1.00 0.50	 Very limited Cutbanks cave 	 1.00
3125A: Meehan	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 0.82	 Very limited Cutbanks cave 	1.00
3126A: Wurtsmith	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 0.99 0.82	 Very limited Cutbanks cave Depth to water	 1.00 0.01
3312B: Glendenning, very stony	 Somewhat limited Seepage 	 0.72	 Very limited Depth to saturated zone Seepage	 1.00 0.04	 Very limited No ground water 	 1.00
Glendenning	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Seepage	 1.00 0.04	 Very limited No ground water 	 1.00
3336A: Fenander	 Somewhat limited Seepage 	 0.72 	 Very limited Depth to saturated zone Ponding	 1.00 1.00	 Very limited Cutbanks cave Slow refill 	 1.00 0.28

Table 20.--Water Management--Continued

Map symbol and soil name	Pond reservoir ar	eas	Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3403A: Loxley	 Very limited Seepage 	 1.00 	 Very limited Content of organic matter Depth to saturated zone Piping Ponding	 1.00 1.00 1.00	 Somewhat limited Cutbanks cave 	0.10
Beseman	 Very limited Seepage 	 1.00 	Very limited Content of organic matter Depth to saturated zone Piping Ponding	 1.00 1.00 1.00	 Somewhat limited Cutbanks cave 	0.10
Dawson	 Very limited Seepage 	 1.00 	Very limited Content of organic matter Depth to saturated zone Ponding Seepage	 1.00 1.00 1.00 0.64	 Cutbanks cave 	 1.00
3429B: Lara	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 0.20	 Very limited Cutbanks cave 	 1.00
3429C: Lara	 Very limited Seepage 	1.00	 Very limited Depth to saturated zone Seepage	 1.00 0.20	 Very limited Cutbanks cave	1.00
3446A: Newson	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Ponding Seepage	 1.00 1.00 0.82	 Very limited Cutbanks cave 	 1.00
3448B: Grettum	 Very limited Seepage	1.00	 Somewhat limited Seepage	 0.58 	 Very limited Cutbanks cave Depth to water	1.00
3448C: Grettum	 Very limited Seepage 	 1.00	 Somewhat limited Seepage 	 0.58 	 Very limited Cutbanks cave Depth to water	 1.00 0.96
3510B: Pomroy	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Thin layer Seepage	 0.99 0.11 0.08	 Very limited No ground water 	 1.00

Table 20.--Water Management--Continued

Map symbol and soil name	Pond reservoir ar 	eas	Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3510B:	 					İ
Fremstadt	 Very limited Seepage	1.00	 Somewhat limited Seepage	0.07	 Very limited No ground water	1.00
Fremstadt, stony	 Very limited Seepage	1.00	 Somewhat limited Seepage	0.07	 Very limited No ground water	1.00
3510C:	 	1	 	1	 	
Pomroy	 Very limited Seepage 	 1.00 	Very limited Depth to saturated zone Thin layer Seepage	 0.99 0.11 0.08	 Very limited No ground water 	1.00
Fremstadt	 Very limited	 	 Somewhat limited	į	 Very limited	į
	Seepage	1.00	Seepage	0.07	No ground water	1.00
Fremstadt, stony	 Very limited Seepage	1.00	Somewhat limited Seepage	0.07	 Very limited No ground water	1.00
3511A: Bushville	 Very limited Seepage 	 1.00 	 Very limited Depth to saturated zone Thin layer Seepage	 1.00 0.11 0.07	 Very limited No ground water 	 1.00
3516A: Slimlake	 Very limited Seepage 	 1.00 	 Somewhat limited Depth to saturated zone Seepage	 0.86 0.79	Very limited Cutbanks cave Depth to water	 1.00 0.06
3625A: Lino	 Very limited Seepage	 1.00 	 Very limited Depth to saturated zone Seepage	 1.00 0.30	 Very limited Cutbanks cave	1.00
3626A:						
Crex	Very limited Seepage 	 1.00 	Very limited Depth to saturated zone Seepage	 0.99 0.88	Very limited Cutbanks cave Depth to water 	 1.00 0.01
3629B: Perida	 Very limited Seepage	 1.00 	 Somewhat limited Seepage Depth to saturated zone	 0.72 0.09	 Very limited No ground water 	1.00
3636B: Plainbo	 Very limited Seepage Depth to bedrock	1.00		 0.86 0.51	 Very limited No ground water 	 1.00

Table 20.--Water Management--Continued

Map symbol and soil name	Pond reservoir ar 	eas	Embankments, dikes levees	, and	Aquifer-fed excavated pond	ls
	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
3636C:						
Plainbo	Very limited Seepage Depth to bedrock	 1.00 0.11		 0.86 0.51	Very limited No ground water 	 1.00
M-W: Miscellaneous water	 Not rated		 Not rated		 Not rated	
W: Water	 Not rated		 Not rated		 Not rated	

Table 21a.--Agricultural Waste Management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

			<u> </u>			
Map symbol	Application of		Application			
and soil name	manure and food	manure and food- of sewage slu				
	processing wast	е	İ			
	Rating class and	Value	Rating class and	Value		
	limiting features		limiting features			
3A:			 			
on: Totagatic	 Very limited		 Very limited			
100030010	Filtering	1.00	Filtering	1.00		
	capacity		capacity			
	Depth to	1.00	Depth to	1.00		
	saturated zone		saturated zone			
	Flooding	1.00	Flooding	1.00		
	Ponding	1.00	Low adsorption	1.00		
	Leaching	0.90	Ponding	1.00		
Bowstring	 Very limited		 Very limited			
2020225	Filtering	1.00	Filtering	1.00		
	capacity		capacity			
	Depth to	1.00	Depth to	1.00		
	saturated zone		saturated zone			
	Flooding	1.00	Flooding	1.00		
	Low adsorption	1.00	Low adsorption	1.00		
	Ponding	1.00	Ponding	1.00		
Ausable	 Very limited		 Very limited			
	Filtering	1.00	Filtering	1.00		
	capacity		capacity			
	Depth to	1.00	Depth to	1.00		
	saturated zone	i	saturated zone	i		
	Flooding	1.00	Flooding	1.00		
	Ponding	1.00	Low adsorption	1.00		
	Leaching	0.90	Ponding	1.00		
12A:						
Makwa	Very limited	i	 Very limited	İ		
	Depth to	1.00	Depth to	1.00		
	saturated zone	İ	saturated zone	İ		
	Flooding	1.00	Flooding	1.00		
	Restricted	1.00	Low adsorption	1.00		
	permeability		Restricted	1.00		
	Large stones on	1.00	permeability			
	the surface		Large stones on	1.00		
	Ponding	1.00	the surface			
22A:						
Comstock	Very limited		Very limited			
	Depth to	1.00	Depth to	1.00		
	saturated zone		saturated zone			
	Restricted	0.41	Too acid	0.31		
	permeability		Restricted	0.31		
	Too acid	0.08	permeability			

Table 21a.--Agricultural Waste Management--Continued

	Map symbol and soil name	Application of manure and food	-	 Application of sewage sludg	e
		·			
27A:			Value		Value
Scott Lake		limiting features	<u> </u>	limiting features	<u> </u>
Scott Lake					!
Filtering 1.00 Filtering 1.00 Capacity Capa					-
Capacity Depth to Saturated zone Too acid Droughty Dro	Scott Lake	: -		: -	
Depth to Saturated zone Saturated zone Too acid O.08 Too acid O.08 Too acid O.08 Too acid O.08 Too acid O.09 Depth to O.09 Depth to O.09 Saturated zone Restricted O.99 Depth to O.09 Depth to O.09 Depth to O.09 Depth to O.000 Depth to O.00			1.00		1.00
Saturated zone					
Too acid		-	0.86		0.86
Droughty		1		!	
### Haugen, very stony Very limited			!	!	0.31
Haugen, very stony Very limited Depth to 0.99 Depth to 0.99 Saturated zone Saturated zone Saturated zone Saturated zone Saturated zone		Droughty	0.05	Droughty	0.05
Haugen, very stony Very limited Depth to 0.99 Depth to 0.99 Saturated zone Saturated zone Saturated zone Saturated zone Saturated zone		!	ļ		!
Depth to saturated zone Saturated zone Restricted 0.89 Too acid 0.99 Depth to saturated zone Restricted 0.89 Too acid 0.99 Too acid 0.99 Too acid 0.32 Depth to saturated zone S		!	ļ		!
Saturated zone Saturated zone Restricted 0.89 Too acid 0.	Haugen, very stony	-		: -	
Restricted 0.89 Too acid 0.89 Permeability Restricted 0.89 Too acid 0.89 Too acid 0.89 Too acid 0.50 permeability Too acid 0.32			0.99	: -	0.99
Depth to Depth to		1		!	
Too stony		Restricted	0.89	Too acid	0.91
Too acid		permeability		Restricted	0.78
Haugen		Too stony	0.50	permeability	
Depth to 0.99 Depth to 0.84 saturated zone saturated zone Restricted 0.89 Too acid 0. permeability Restricted 0. Permeability Restricted 0. Permeability Restricted 0. Permeability Restricted 0. Permeability Permeabi		Too acid	0.32		
Depth to 0.99 Depth to 0.84 saturated zone saturated zone saturated zone Restricted 0.89 Too acid 0. permeability Restricted 0. Permeability Restricted 0. Permeability Rosholt, very stony Very limited Very limited Filtering 1.00 Filtering 1. Capacity Dense layer 1.00 Droughty 0. Too stony 0.50 Too acid 0. Droughty 0.40 Too acid 0.08					
Saturated zone Saturated zone Restricted 0.89 Too acid 0.99 0.90	Haugen	Very limited		Very limited	
Restricted 0.89 Too acid 0. permeability Restricted 0. Too acid 0.32 permeability Rosholt, very stony Very limited Very limited Filtering 1.00 Filtering 1. capacity capacity Capacity Dense layer 1.00 Droughty 0. Too stony 0.50 Too acid 0. Too acid 0.08 Rosholt		Depth to	0.99	Depth to	0.99
Permeability		saturated zone		saturated zone	
Too acid 0.32 permeability		Restricted	0.89	Too acid	0.91
Rosholt, very stony Very limited Filtering 1.00 Filtering 1.00 Capacity Ca		permeability		Restricted	0.78
Filtering		Too acid	0.32	permeability	İ
Filtering			ĺ		İ
capacity	Rosholt, very stony	Very limited	ĺ	Very limited	İ
Dense layer		Filtering	1.00	Filtering	1.00
Too stony		capacity	ĺ	capacity	İ
Droughty 0.40 Too acid 0.08		Dense layer	1.00	Droughty	0.40
Too acid 0.08		Too stony	0.50	Too acid	0.31
Rosholt		Droughty	0.40	İ	İ
Filtering 1.00 Filtering 1.		Too acid	0.08	İ	İ
Filtering		İ	İ	İ	İ
capacity capacity 0.4	Rosholt	Very limited	İ	 Very limited	İ
Dense layer		Filtering	1.00	Filtering	1.00
Dense layer		capacity	İ	capacity	İ
Too acid 0.08		Dense layer	1.00	Droughty	0.33
28C: Haugen, very stony Very limited Very limited Depth to 0.99 Depth t		Droughty	0.33	Too acid	0.31
Haugen, very stony Very limited Very limited Depth to 0.99 Depth to 0.		Too acid	0.08	İ	i
Haugen, very stony Very limited Very limited Depth to 0.99 Depth to 0.		İ	i	İ	i
Depth to	28C:	İ	i	İ	i
Depth to	Haugen, very stony	Very limited	i	 Very limited	i
Saturated zone Saturated zone Restricted 0.89 Too acid 0. permeability Restricted 0. Too stony 0.50 permeability Too acid 0.32 Slope 0. Slope 0.04 Haugen	-	i =	0.99	i	0.99
permeability Restricted 0. Too stony 0.50 permeability Too acid 0.32 Slope 0. Slope 0.04 Haugen			i		i
permeability Restricted 0. Too stony 0.50 permeability Too acid 0.32 Slope 0. Slope 0.04 Haugen		Restricted	0.89	Too acid	0.91
Too stony			1	!	0.78
Too acid 0.32 Slope 0.		: -	0.50	!	i
Slope				: -	0.04
				İ	i
Depth to 0.99 Depth to 0.99 saturated zone saturated zone Restricted 0.89 Too acid 0.99 Depth to 0.99 Too acid 0.99 Depth to 0.99 Too acid 0.99 Depth to				İ	i
Depth to 0.99 Depth to 0.99 saturated zone saturated zone Restricted 0.89 Too acid 0.99 Depth to 0.99 Too acid 0.99 Depth to 0.99 Too acid 0.99 Depth to	Haugen	Very limited	i	 Verv limited	i
saturated zone saturated zone Restricted 0.89 Too acid 0. permeability Restricted 0.	- - -	-	0.99		0.99
Restricted 0.89 Too acid 0.			1		
permeability Restricted 0.			0.89	!	0.91
				!	0.78
			0.32	!	
				: -	0.04

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food	-	Application of sewage sludg	e
	processing wast	e	<u> </u>	
	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	
28C:			 	
Rosholt, very stony	 Very limited		 Very limited	
ROSHOTE, Very Scony	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Dense layer	1.00	Droughty	0.40
	Too stony	0.50	Too acid	0.31
	Droughty	0.40	Slope	0.04
	Too acid	0.08		
Rosholt	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Dense layer	1.00	Droughty	0.33
	Droughty Too acid	0.33	Too acid	0.31
	Slope	0.08	Slope	0.04
	probe	0.04	 	
38A:	 		 	
Rosholt	 Very limited		 Very limited	
	Filtering	1.00	Filtering	1.00
	capacity	i	capacity	i
	Dense layer	1.00	Droughty	0.33
	Droughty	0.33	Too acid	0.31
	Too acid	0.08		
38B:				
Rosholt	Very limited	:	Very limited	
	Filtering	1.00	Filtering	1.00
	capacity	11 00	capacity	
	Dense layer Droughty	1.00	Droughty Too acid	0.33
	Too acid	0.08	100 acid	0.31
38C:		i		i
Rosholt	 Very limited	i	 Very limited	i
	Filtering	1.00	Filtering	1.00
	capacity	İ	capacity	İ
	Dense layer	1.00	Droughty	0.33
	Droughty	0.33	Too acid	0.31
	Too acid	0.08	Slope	0.04
	Slope	0.04		
38D:				
Rosholt	Very limited	11 00	Very limited Filtering	
	Filtering capacity	1.00	capacity	1.00
	Dense layer	1.00	Slope	1.00
	Slope	1.00	Droughty	0.33
	Droughty	0.33	Too acid	0.31
	Too acid	0.08		
		İ		İ
42D:				
Amery	Very limited		Very limited	
	Slope	1.00	Slope	1.00
	Too stony	0.50	Too acid	0.77
	Restricted	0.41	Restricted	0.31
	permeability		permeability	
	Too acid	0.22	I .	i

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food processing wast	-	Application of sewage sludg	re
	' 		 	1 ** - 7
	Rating class and limiting features	Value	Rating class and limiting features	Value
		<u> </u>		1
43B:		i		i
Antigo	Very limited	İ	Very limited	İ
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Too acid	0.08	Too acid	0.31
43C:		ļ		
Antigo	Very limited	1	Very limited	
	Filtering	1.00	Filtering	1.00
	capacity Slope	0.37	capacity Slope	0.37
	Too acid	0.37	Too acid	0.37
	100 acia		100 acia	1
63A:		i		1
Crystal Lake	 Very limited	i	 Very limited	i
-	Depth to	0.99	Depth to	0.99
	saturated zone	i	saturated zone	i
	Restricted	0.41	Too acid	0.31
	permeability	ĺ	Restricted	0.31
	Too acid	0.08	permeability	
63B:		ļ		ļ
Crystal Lake	_		Very limited	
	Depth to	0.99	Depth to	0.99
	saturated zone		saturated zone	
	Restricted	0.41	Too acid	0.31
	permeability Too acid	0.08	Restricted permeability	0.31
	100 acid	1	bermeapility	
63C:	 	i	 	
Crystal Lake	 Very limited	İ	 Very limited	i
-	Depth to	0.99	Depth to	0.99
	saturated zone	į	saturated zone	İ
	Restricted	0.41	Too acid	0.31
	permeability		Restricted	0.31
	Too acid	0.08	permeability	
	Slope	0.04	Slope	0.04
64A: Totagatic	 Very limited		 Tom: limited	
iotagatic	Filtering	1.00	Very limited Filtering	1.00
	capacity	1	capacity	1
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	1
	Flooding	1.00	Flooding	1.00
	Ponding	1.00	Low adsorption	1.00
	Leaching	0.90	Ponding	1.00
Winterfield	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Flooding	1.00	Flooding	1.00
	Leaching	0.90	Droughty	0.52
	Droughty	0.52	I	1

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application manure and fo	od-	Application of sewage sludg	re
	·			1
	Rating class and limiting feature		Rating class and limiting features	Value
69C:	İ	j	İ	j
Keweenaw	Somewhat limited		Somewhat limited	
	Too acid	0.22	Too acid	0.77
	Slope	0.16	Slope	0.16
	Filtering capacity	0.01	Filtering capacity	0.01
	j	j	i	İ
Sayner	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Droughty Leaching	0.99	Droughty Too acid	0.99 0.77
	Too acid	0.45 0.22	Slope	0.77
	Slope	0.16	biope	1
	51090		 	
Vilas	 Very limited	j	 Very limited	İ
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Leaching	0.45	Too acid	0.31
	Slope	0.16	Slope	0.16
	Too acid	0.08	Droughty	0.04
	Droughty	0.04	 	
69E:	 		 	
Keweenaw	 Very limited	i	 Very limited	İ
	Slope	1.00	Slope	1.00
	Too acid	0.22	Too acid	0.77
	Filtering	0.01	Filtering	0.01
	capacity		capacity	
Sayner	 Very limited		 Very limited	
2.2	Slope	1.00	Filtering	1.00
	Filtering	1.00	capacity	İ
	capacity	į	Slope	1.00
	Droughty	0.99	Droughty	0.99
	Leaching	0.45	Too acid	0.77
	Too acid	0.22	l	
Vilas	 Very limited		 Very limited	
	Slope	1.00	Filtering	1.00
	Filtering	1.00	capacity	İ
	capacity	į	Slope	1.00
	Leaching	0.45	Too acid	0.31
	Too acid	0.08	Droughty	0.04
	Droughty	0.04		
82B:	 	l I	 	
Cutaway	 Very limited		 Very limited	
-	Filtering	1.00	Filtering	1.00
	capacity	İ	capacity	
	Depth to	0.99	Depth to	0.99
	saturated zone		saturated zone	
	Too acid	0.01	Too acid	0.03
Branstad	 Verv limited	l	 Very limited	
Dranstau	Depth to	0.99	Depth to	0.99
	saturated zone	'	saturated zone	
	İ	j	İ	İ

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food		Application of sewage sludg	
and soil name			or sewage siuog	e
	processing wast		 	1 ** - 3
	Rating class and limiting features	Value	Rating class and limiting features	Value
		1		1
82C:		i		
Cutaway	Very limited	i	 Very limited	i
-	Filtering	1.00	Filtering	1.00
	capacity	j	capacity	İ
	Depth to	0.99	Depth to	0.99
	saturated zone		saturated zone	
	Slope	0.04	Slope	0.04
	Too acid	0.01	Too acid	0.03
Branstad	 Very limited		 Very limited	
Branstau	Depth to	0.99	Depth to	0.99
	saturated zone	0.99	saturated zone	10.99
	Slope	0.04	Slope	0.04
		i		
83A:	İ	j		j
Smestad	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Restricted	1.00	Restricted	1.00
	permeability		permeability	
	Depth to saturated zone	1.00	Depth to	1.00
	Too acid	0.03	saturated zone Too acid	0.14
	100 acid	0.03	100 acid	0.14
85B:		i		
Taylor	Very limited	i	 Very limited	i
-	Restricted	1.00	Restricted	1.00
	permeability		permeability	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Too acid	0.03	Too acid	0.14
85C:	 		 	
Taylor	 Very limited		 Very limited	l
laylor	Restricted	1.00	Restricted	1.00
	permeability		permeability	
	Depth to	1.00	Depth to	1.00
	saturated zone	į	saturated zone	İ
	Slope	0.04	Too acid	0.14
	Too acid	0.03	Slope	0.04
86A:	 Town limited		 Town limited	
Indus	Very limited Restricted	1.00	Very limited Restricted	1.00
	permeability	1	permeability	1
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Ponding	1.00	Ponding	1.00
	Too acid	0.02	Too acid	0.07
Alango	-		Very limited	
	Restricted	1.00	Restricted	1.00
	permeability		permeability	
	Depth to	1.00	Depth to	1.00
	saturated zone	1	saturated zone	1
	!	0 40	Too acid	0 07
	Runoff Too acid	0.40	Too acid	0.07

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food	-	Application of sewage sludg	е
	processing wast	e		
	Rating class and	Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	<u> </u>
89A: Wildwood	 Very limited		 Very limited	
WIIGWOOG	Depth to	1.00	Depth to	1.00
	saturated zone	1	saturated zone	1
	Restricted	1.00	Low adsorption	1.00
	permeability	i	Restricted	1.00
	Ponding	1.00	permeability	į
	Runoff	0.40	Ponding	1.00
	Too acid	0.11	Too acid	0.42
96B:	 		 	
Karlsborg	Very limited	1.00	Very limited Filtering	1 00
	Filtering capacity	1	capacity	1.00
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted	1.00	Restricted	1.00
	permeability	i	permeability	i
	Too acid	0.22	Too acid	0.77
96C:				!
Karlsborg	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Restricted	1.00	Restricted	1.00
	permeability	1	permeability	1
	Too acid	0.22	Too acid	0.77
	Slope	0.04	Slope	0.04
		ĺ		İ
96D:	[
Karlsborg	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Restricted	1.00	Restricted	1.00
	permeability	1	permeability	1
	Slope	1.00	Slope	1.00
	Too acid	0.22	Too acid	0.77
		ĺ		İ
100B:				
Menahga	-		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Droughty Too acid	0.77	Too acid	0.99
		0.50	Droughty	0.77
	•	0 4 5		
	Leaching	0.45	 	
100C:	•	0.45 	 	
100C: Menahga	•	0.45 	 Very limited	
	Leaching 	0.45 1.00	 Very limited Filtering	 1.00
	Leaching Very limited	 	. –	 1.00
	Leaching Very limited Filtering	 	Filtering	 1.00 1.00
	Leaching Very limited Filtering capacity Too acid Leaching	 1.00	Filtering capacity Low adsorption Too acid	 1.00 0.99
	Leaching Very limited Filtering capacity Too acid	 1.00 0.50	Filtering capacity Low adsorption	1.00

Table 21a.--Agricultural Waste Management--Continued

Map symbol	Application of		Application	
and soil name	manure and food		of sewage sludg	e
	processing wast	е	ĺ	
	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	<u> </u>
100-				
100D:	 Vorus limited		 Vorm limited	
Menahga	Very limited Filtering	1.00	Very limited Filtering	1.00
	capacity		capacity	
	Slope	1.00	Low adsorption	1.00
	Too acid	0.50	Slope	1.00
	Leaching	0.45	Too acid	0.99
	Droughty	0.40	Droughty	0.40
1000				
120B: Kost	 Very limited		 Very limited	
ROSC	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Droughty	0.64	Droughty	0.64
	Leaching	0.45	Too acid	0.07
	Too acid	0.02		
		ļ		!
127D:				
Amery	Very limited Slope	1.00	Very limited	1.00
	Too stony	0.50	Slope Too acid	0.77
	Restricted	0.41	Restricted	0.31
	permeability	i	permeability	i
	Too acid	0.22		İ
				[
Rosholt	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity Dense layer	1.00	capacity Slope	1.00
	Slope	1.00	Droughty	0.40
	Too stony	0.50	Too acid	0.31
	Droughty	0.40		i
127E:				1
Amery	Very limited		Very limited	
	Slope	1.00	Slope	1.00
	Too stony Restricted	0.50	Too acid Restricted	0.77
	permeability		permeability	
	Too acid	0.22		i
	į	į		į
Rosholt	Very limited		Very limited	
	Slope	1.00	Filtering	1.00
	Filtering	1.00	capacity	
	capacity Dense layer	1 00	Slope Droughty	1.00
	Too stony	1.00 0.50	Too acid	0.31
	Droughty	0.40		
		i		i
151A:		ĺ		İ
Bluffton	Very limited		Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Ponding	1.00	Ponding	1.00
	Leaching	0.50	 	1
152A:		i	 	i
Alstad	Very limited	İ	 Very limited	i
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	1
	Too acid	0.02	Too acid	0.07
	I	I		I

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food	-	Application of sewage sludg	e
	processing wast			1 -
	Rating class and	Value		Value
	limiting features	1	limiting features	1
154E:	 	l I	 	
Cushing	 Very limited	i	 Very limited	
	Slope	1.00	Slope	1.00
	Restricted	0.41	Restricted	0.31
	permeability		permeability	
	Too acid	0.02	Too acid	0.07
	İ	ĺ		İ
156B:				
Magnor, very stony	Very limited		Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Dense layer	1.00	Too acid	0.85
	Restricted	0.74	Restricted	0.60
	permeability		permeability	
	Too stony	0.50		
	Too acid	0.27		
Magnor	Very limited		Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Dense layer	1.00	Too acid	0.85
	Restricted	0.74	Restricted	0.60
	permeability		permeability	
	Too acid	0.27		
157B:				
Freeon, very stony	_	!	Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone	!	saturated zone	
	Dense layer	1.00	Too acid	0.77
	Restricted	0.74	Restricted	0.60
	permeability	!	permeability	!
	Too stony	0.50		
	Too acid	0.22		
Freeon				
rreeon	Very limited	1 00	Very limited	1.00
	Depth to	1.00	Depth to	1.00
	saturated zone	1 00	saturated zone	
	Dense layer	1.00	Too acid	0.85
	Restricted	0.74	Restricted	0.60
	permeability		permeability	
	Too acid	0.27	 	
157C:	[İ		
Freeon, very stony	 Verv limited	i	 Very limited	i
	Depth to	1.00	_	1.00
	saturated zone		saturated zone	
	Dense layer	1.00	Too acid	0.77
	Restricted	0.74	Restricted	0.60
	permeability	1	permeability	
	Too stony	0.50	Slope	0.04
	Too acid	0.22		
	İ	İ		į
Freeon	Very limited	İ	 Very limited	İ
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Dense layer	1.00	Too acid	0.85
	Restricted	0.74	Restricted	0.60
	permeability		permeability	
	Too acid	0.27	Slope	0.04
	i .	0.04	I	1
	Slope	0.04		

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food		Application of sewage sludg	re
	processing wast			
	Rating class and	Value		Value
	limiting features		limiting features	1
160A:	 		 	l
Oesterle	 Very limited		 Very limited	i
	Filtering	1.00	Filtering	1.00
	capacity	i	capacity	i
	Depth to	1.00	Depth to	1.00
	saturated zone	İ	saturated zone	İ
	Too acid	0.22	Too acid	0.77
	Droughty	0.09	Droughty	0.09
165B:	 		 	
	 Very limited	i	 Very limited	i
	Filtering	1.00	Filtering	1.00
	capacity	İ	capacity	İ
	Droughty	0.99	Droughty	0.99
	Too acid	0.01	Too acid	0.03
185B:	 		 	
Tradelake	 Very limited	i	 Very limited	i
	Filtering	1.00	Filtering	1.00
	capacity	i	capacity	İ
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted	1.00	Restricted	1.00
	permeability		permeability	
	Too acid	0.11	Too acid	0.42
Taylor	 Very limited		 Very limited	
_	Restricted	1.00	Restricted	1.00
	permeability	İ	permeability	İ
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Too acid	0.03	Too acid	0.14
185C:	 		 	
Tradelake	Very limited	į	Very limited	j
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone	!	saturated zone	
	Restricted	1.00	Restricted	1.00
	permeability		permeability	
	Too acid	0.11	Too acid	0.42
	Slope 	0.04	Slope 	0.04
Taylor	 Very limited	İ	 Very limited	i
	Restricted	1.00	Restricted	1.00
	permeability		permeability	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Slope	0.04	Too acid	0.14
	Too acid	0.03	Slope	0.04

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food processing wast	-	Application of sewage sludg	e
	:			1
	Rating class and limiting features	Value	Rating class and limiting features	Value
185D:	j	į		į
Tradelake	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Restricted permeability	1.00	Restricted permeability	1.00
	Slope	1.00	Slope	1.00
	Depth to	0.99	Depth to	0.99
	saturated zone		saturated zone	
	Too acid	0.11	Too acid	0.42
Taylor	Very limited		Very limited	
	Restricted	1.00	Restricted	1.00
	permeability Depth to	1.00	permeability Depth to	1.00
	saturated zone	1	saturated zone	1
	Slope	1.00	Slope	1.00
	Too acid	0.03	Too acid	0.14
	j	į		į
185E:				
Tradelake	Very limited		Very limited	
	Slope	1.00	Filtering	1.00
	Filtering	1.00	capacity	
	capacity Restricted	1 00	Slope	1.00
	!	1.00	Restricted	1.00
	permeability Depth to	0.99	permeability Depth to	0.99
	saturated zone		saturated zone	
	Too acid	0.11	Too acid	0.42
Taylor	Very limited	1 00	Very limited	
	Slope Restricted	1.00	Restricted permeability	1.00
	permeability	1	Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Slope	1.00
	Too acid	0.03	Too acid	0.14
		ļ		
189A: Siren	 Very limited	l I	 Very limited	
Bilen	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted	0.74	Too acid	1.00
	permeability	İ	Restricted	0.60
	Too acid	0.62	permeability	İ
	Runoff	0.40		
193A:	 		[]	
Minocqua	 Very limited	İ	 Very limited	
-	Filtering	1.00	Filtering	1.00
	capacity	İ	capacity	İ
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Ponding	1.00	Low adsorption	1.00
	Leaching	0.70	Ponding	1.00
	Too acid	0.02	Too acid	0.07

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food processing wast	-	Application of sewage sludg	e
	Rating class and	Value	Rating class and	Value
	limiting features	vaide	limiting features	
		Ī		
337A:		ļ		
Plover	Very limited	1	Very limited	1 00
	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Restricted	0.89	Restricted	0.78
	permeability		permeability	
	Too acid	0.08	Too acid	0.31
368B: Mahtomedi	 Very limited		 Very limited	
Mancomedi	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Droughty	1.00	Droughty	1.00
	Leaching	0.45	Too acid	0.42
	Too acid	0.11		
G				
Cress	Very limited Filtering	1.00	Very limited	1 00
	capacity	1	Filtering capacity	1.00
	Droughty	0.60	Droughty	0.60
	Leaching	0.45	Too acid	0.31
	Too acid	0.08		
368C: Mahtomedi	 Very limited	l I	 Very limited	
Mancomedi	Filtering	1.00	. –	1.00
	capacity		capacity	
	Droughty	1.00	Droughty	1.00
	Leaching	0.45	Too acid	0.42
	Too acid	0.11	Slope	0.04
	Slope	0.04		į
Cress	 Very limited	l i	 Very limited	
Cless	Filtering	1.00	Filtering	1.00
	capacity	1	capacity	1
	Droughty	0.60	Droughty	0.60
	Leaching	0.45	Too acid	0.31
	Too acid	0.08	Slope	0.04
	Slope	0.04		İ
368D:	 		 	
Mahtomedi	 Verv limited	i	 Very limited	i
	Filtering	1.00	Filtering	1.00
	capacity	İ	capacity	İ
	Slope	1.00	Slope	1.00
	Droughty	1.00	Droughty	1.00
	Leaching	0.45	Too acid	0.42
	Too acid	0.11		
Cress	 Very limited		 Very limited	
	Filtering	1.00	Filtering	1.00
	capacity	İ	capacity	İ
	Slope	1.00	Slope	1.00
	Droughty	0.60	Droughty	0.60
	Leaching Too acid	0.45	Too acid	0.31

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food		Application of sewage sludg	e
4114 B011 1141110	processing wast		01 5000030 51003	
	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	
368E:				
Mahtomedi	Very limited		Very limited	
	Slope	1.00	Filtering	1.00
	Filtering capacity	1.00	capacity Slope	1.00
	Droughty	1.00	Droughty	1.00
	Leaching	0.45	Too acid	0.42
	Too acid	0.11		
				i
Cress	Very limited	į	Very limited	į
	Slope	1.00	Filtering	1.00
	Filtering	1.00	capacity	
	capacity		Slope	1.00
	Droughty	0.60	Droughty	0.60
	Leaching	0.45	Too acid	0.31
	Too acid	0.08		
300D				
380B: Cress	 Very limited		 Very limited	
C1688	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Droughty	0.60	Droughty	0.60
	Leaching	0.45	Too acid	0.31
	Too acid	0.08		j
Rosholt	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Dense layer	1.00	Droughty	0.33
	Droughty Too acid	0.33	Too acid	0.31
	100 acid 	0.08	 	
380C:	 		 	
Cress	 Very limited	İ	 Very limited	i
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Droughty	0.60	Droughty	0.60
	Leaching	0.45	Too acid	0.31
	Too acid	0.08	Slope	0.04
	Slope	0.04	1	
Rosholt	 Vorus limited		 Very limited	
ROSHOIC		1.00		1.00
	Filtering capacity	1.00	Filtering capacity	1
	Dense layer	1.00	Droughty	0.33
	Droughty	0.33	Too acid	0.31
	Too acid	0.08	Slope	0.04
	Slope	0.04	_	j
380D:		ļ		
Cress	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Slope	1.00	Slope	1.00
	Droughty	0.60	Droughty	0.60
	Leaching	0.45	Too acid	0.31
	Too acid	0.08		1

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food processing wast	l-	Application of sewage sludg	re
	Rating class and	Value	Rating class and	Value
	limiting features	value	limiting features	value
	Ī	İ	İ	İ
380D:	 			
Rosholt		1	Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Dense layer	1.00	Slope	1.00
	Slope	1.00	Droughty	0.33
	Droughty	0.33	Too acid	0.31
	Too acid	0.08	l I	
383B:		1	 	
Mahtomedi	Very limited	İ	Very limited	İ
	Filtering	1.00	Filtering	1.00
	capacity	İ	capacity	İ
	Droughty	1.00	Droughty	1.00
	Leaching	0.45	Too acid	0.42
	Too acid	0.11	İ	İ
222		1		
383C: Mahtomedi	 Very limited		 Very limited	
114113311341	Filtering	1.00	Filtering	1.00
	capacity	1	capacity	1
	Droughty	1.00	Droughty	1.00
	Leaching	0.45	Too acid	0.42
	Too acid	0.11	Slope	0.04
	Slope	0.04		
383D:				
Mahtomedi	 Very limited		 Very limited	
Mancomean	Filtering	1.00	Filtering	1.00
	capacity	1	capacity	1
	Slope	1.00	Slope	1.00
	Droughty	1.00	Droughty	1.00
	Leaching	0.45	Too acid	0.42
	Too acid	0.11	100 acid	
	į	į		į
392C: Rockmarsh	 Very limited		 Very limited	l i
ROCKMAI SII	Depth to	1.00	Depth to	1.00
	saturated zone	1	saturated zone	1
	Cobble content	1.00	Low adsorption	1.00
	Too stony	0.50	Cobble content	1.00
	Runoff	0.40	Too acid	0.91
	Slope	0.37	!	0.37
Dairyland			Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	1
	Depth to	0.99	Low adsorption	1.00
	saturated zone		Depth to	0.99
	Droughty	0.91	saturated zone	
	Droughty Too stony Slope	0.91 0.50 0.37	saturated zone Droughty Slope	 0.91 0.37

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food	-	Application of sewage sludg	e
	processing wast		<u> </u>	1
	Rating class and limiting features	Value	Rating class and limiting features	Value
	IIMICING TEACUTES	<u> </u>	IIMICING TEACUTES	1
392C:		i		
Makwa	 Very limited	i	 Very limited	i
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted	1.00	Low adsorption	1.00
	permeability		Restricted	1.00
	Large stones on	1.00	permeability	
	the surface	10 50	Large stones on the surface	1.00
	Too stony Runoff	0.50	Too acid	0.77
	KullOII	0.40	100 acid	0.77
396B:	[i		
Friendship	 Very limited	İ	 Very limited	i
<u>-</u>	Filtering	1.00	Filtering	1.00
	capacity	į	capacity	į
	Droughty	0.90	Droughty	0.90
	Leaching	0.45	Too acid	0.21
	Too acid	0.05		
Wurtsmith	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity Depth to	0.99	capacity Too acid	1.00
	saturated zone	0.33	Depth to	0.99
	Droughty	0.87	saturated zone	0.55
	Too acid	0.78	Droughty	0.87
	Leaching	0.45		
		į		į
Grayling	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Droughty	1.00	Too acid	1.00
	Too acid	0.78	Droughty	1.00
	Leaching	0.45	 	
397A:	 	1	 	
Perchlake	 Very limited	İ	 Very limited	
	Filtering	1.00	Filtering	1.00
	capacity	i	capacity	i
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Droughty	0.25	Too acid	0.77
	Too acid	0.22	Droughty	0.25
		ļ		!
399B:				
Grayling		1 00	Very limited	
	Filtering capacity	1.00	Filtering capacity	1.00
	Droughty	1.00	Too acid	1.00
	Too acid	0.78	Droughty	1.00
	Leaching	0.45		
	i İ	ĺ		i
399C:		İ		İ
Grayling	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Droughty	1.00	Too acid	1.00
	Too acid	0.78	Droughty	1.00
	!	i 0 - 1 -		0 04
	Leaching Slope	0.45	Slope	0.04

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food		 Application of sewage sludg	e
	processing wast	e		
	Rating class and	Value	Rating class and	Value
	limiting features	j	limiting features	j
		Ī		I
399D:				
Grayling	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Slope	1.00	Too acid	1.00
	Droughty	1.00	Slope	1.00
	Too acid	0.78	Droughty	1.00
	Leaching	0.45		!
				!
406A:				!
Loxley	Very limited	ļ	Very limited	!
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Ponding	1.00	Low adsorption	1.00
	Too acid	0.94	Too acid	1.00
	Leaching	0.90	Ponding	1.00
407A:	 		İ	
	 Very limited		 Tom: limited	1
Seelyeville	Depth to	1.00	Very limited Depth to	1.00
	saturated zone	1	saturated zone	1
	Ponding	1.00	Low adsorption	1.00
	Leaching	0.90	Ponding	1.00
	Too acid	0.08	Too acid	0.31
	100 4014		100 4014	
Markey	 Very limited	i	 Very limited	i
	Filtering	1.00	Filtering	1.00
	capacity	i	capacity	1
	Depth to	1.00	Depth to	1.00
	saturated zone	i	saturated zone	i
	Ponding	1.00	Low adsorption	1.00
	Leaching	0.90	Ponding	1.00
410A:				
Seelyeville	Very limited		Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Ponding	1.00	Low adsorption	1.00
	Leaching	0.90	Ponding	1.00
	Too acid	0.08	Too acid	0.31
				!
Cathro	Very limited		Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Ponding	1.00	Low adsorption	1.00
	Leaching Too acid	0.90	Ponding	1.00
	100 acid	0.02	Too acid	0.07
419A:	 	1	 	1
	 Very limited	i	 Very limited	i
2001/01116	Depth to	1.00	Depth to	1.00
			saturated zone	
	saturated zone		200000000000000000000000000000000000000	1
	saturated zone	1.00	Low adsorption	1.00
	Ponding	1.00	Low adsorption Ponding	1.00
		1.00 0.90 0.08	Low adsorption Ponding Too acid	1.00 1.00 0.31

Table 21a.--Agricultural Waste Management--Continued

	class and Value
limiting features limit	
419A:	
419A:	i
Cathro Very limited Very 1	mi+od
Depth to 1.00 Depth	
: : : - : : - : : - : : - : : : - : : : : - : : : : : : : - :	rated zone
Ponding 1.00 Low	dsorption 1.00
Leaching 0.90 Pond	-
Too acid 0.02 Too	0.07
Markey Very limited Very l	.mited
Filtering 1.00 Filt	ering 1.00
	city
Depth to 1.00 Depth	
	rated zone
Leaching 1.00 Pond	- '
421A:	mitod
Depth to 1.00 Depth	
· -	rated zone
Restricted 1.00 Low	dsorption 1.00
permeability Rest	ricted 1.00
	neability
Leaching 0.90 Pond	-
Too acid 0.02 Too	cid 0.07
Markey Very limited Very l	mited
Filtering 1.00 Filt	ering 1.00
! ! ! -	city
Depth to 1.00 Depth	
	rated zone
Leaching 1.00 Pond	- :
Gaalaanilla Wana limitad	
Seelyeville Very limited Very l Depth to 1.00 Depth	
· -	rated zone
Ponding 1.00 Low	dsorption 1.00
Leaching 0.90 Pond	ng 1.00
Too acid 0.08 Too	0.31
422A:	i
Seelyeville Very limited Very l	mited
Depth to 1.00 Dept	'
	rated zone
	dsorption 1.00
Leaching 0.90 Pond Too acid 0.08 Too	-
i i i	į
Cathro Very limited Very l	
Depth to 1.00 Dept	
	rated zone 1.00
Ponding 1.00 Low Leaching 0.90 Pond	- '
Too acid 0.02 Too	-
i i i	į

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food processing wast	-	Application of sewage sludg	re
	:			1
	Rating class and limiting features	Value	Rating class and limiting features	Value
4003			1	
422A: Rondeau	 Very limited		 Very limited	1
Kondeau	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted	1.00	Low adsorption	1.00
	permeability	1	Restricted	1.00
	Ponding	1.00	permeability	İ
	Leaching	0.90	Ponding	1.00
426B:	 			
Emmert	Very limited	ĺ	Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Droughty	1.00	Droughty	1.00
	Leaching	0.45	Too acid	0.03
	Too acid	0.01	 	l I
Mahtomedi	 Very limited	i	 Very limited	i
	Filtering	1.00	Filtering	1.00
	capacity	i	capacity	i
	Droughty	1.00	Droughty	1.00
	Leaching	0.45	Too acid	0.42
	Too acid	0.11		
Menahga	 Very limited		 Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Too acid	0.50	Low adsorption	1.00
	Leaching	0.45	Too acid	0.99
	Droughty	0.39	Droughty	0.39
426C:				
Emmert	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Droughty	1.00	Droughty	1.00
	Leaching	0.45	Slope Too acid	0.04
	Slope Too acid	0.01	100 acid 	
	ļ			
Mahtomedi	Very limited		Very limited	
	Filtering	1.00		1.00
	capacity Droughty	1.00	capacity Droughty	1.00
	Leaching	0.45	Too acid	0.42
	Too acid	0.11	Slope	0.04
	Slope	0.04		
Menahga	 Very limited		 Very limited	
· -	Filtering	1.00	Filtering	1.00
	capacity	ĺ	capacity	İ
	Too acid	0.50	Low adsorption	1.00
	Leaching	0.45	Too acid	0.99
	t and the second			10 20
	Droughty	0.39	Droughty Slope	0.39

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food	-	Application of sewage sludg	e
	processing wast	e		
	Rating class and	Value		Value
	limiting features	<u> </u>	limiting features	<u> </u>
		ļ		!
426D:				
Emmert	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Droughty	1.00	Droughty	1.00
	Slope	1.00	Slope	1.00
	Leaching	0.45	Too acid	0.03
	Too acid	0.01		
Mr. 3. 5	 		 	
Mahtomedi	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Slope	1.00	Slope	1.00
	Droughty	1.00	Droughty	1.00
	Leaching	0.45	Too acid	0.42
	Too acid	0.11		
Menahga	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Slope	1.00	Low adsorption	1.00
	Too acid	0.50	Slope	1.00
	Leaching	0.45	Too acid	0.99
	Droughty	0.39	Droughty	0.39
430A:				
Freya	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Restricted	1.00	Restricted	1.00
	permeability		permeability	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Runoff	0.40	Too acid	0.03
	Too acid	0.01		
439B:				
Graycalm	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Too acid	0.50	Too acid	0.99
	Leaching	0.45	Droughty	0.25
	Droughty	0.25		
Menahga	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Too acid	0.50	Low adsorption	1.00
	Leaching	0.45	Too acid	0.99
	Droughty	0.39	Droughty	0.39
439C:	[[[
Graycalm	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Too acid	0.50	Too acid	0.99
	Leaching	0.45	Droughty	0.25
	Droughty	0.25	Slope	0.04
	Slope	0.04		

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food	-	Application of sewage sludg		
	processing wast				
	Rating class and	Value		Value	
	limiting features	<u> </u>	limiting features	1	
439C:			 		
Menahga	 Very limited	i	 Very limited	1	
	Filtering	1.00	Filtering	1.00	
	capacity		capacity		
	Too acid	0.50	Low adsorption	1.00	
	Leaching	0.45	Too acid	0.99	
	Droughty	0.39	Droughty	0.39	
	Slope	0.04	Slope	0.04	
	į	İ		İ	
439D:	ĺ	İ]	İ	
Graycalm	Very limited		Very limited		
	Filtering	1.00	Filtering	1.00	
	capacity		capacity		
	Slope	1.00	Slope	1.00	
	Too acid	0.50	Too acid	0.99	
	Leaching	0.45	Droughty	0.25	
	Droughty	0.25			
Menahga	Very limited		Very limited		
	Filtering	1.00	Filtering	1.00	
	capacity		capacity		
	Slope	1.00	Low adsorption	1.00	
	Too acid	0.50	Slope	1.00	
	Leaching	0.45	Too acid	0.99	
	Droughty	0.39	Droughty	0.39	
		!		!	
442C:		!			
Haugen	Very limited		Very limited		
	Depth to	0.99	Depth to	0.99	
	saturated zone		saturated zone		
	Restricted	0.89	Too acid	0.91	
	permeability		Restricted	0.78	
	Too stony	0.50	permeability		
	Too acid	0.32			
Greenwood	 Town limited	1	 Town limited		
Greenwood	Very limited Filtering	1.00	Very limited Filtering	1.00	
	capacity	1	capacity	1	
	Depth to	1.00	Depth to	1.00	
	saturated zone	1	saturated zone	1	
	Ponding	1.00	Low adsorption	1.00	
	Too acid	0.94	Too acid	1.00	
	Leaching	0.90	Ponding	1.00	
443D:	i	i		i	
Amery	 Verv limited	i	 Very limited	i	
•	Slope	1.00	Slope	1.00	
	Too stony	0.50	Too acid	0.31	
	Restricted	0.41	Restricted	0.31	
	permeability	i	permeability	i	
	Too acid	0.08		i	
	į	İ		i	
Greenwood	Very limited	İ	 Very limited	İ	
	Filtering	1.00	Filtering	1.00	
	capacity	İ	capacity	İ	
		1.00	Depth to	1.00	
	Depth to	1-00			
	Depth to saturated zone		saturated zone	į	
		1.00	saturated zone Low adsorption	1.00	
	saturated zone	į	!	 1.00 1.00	
	saturated zone Ponding	1.00	Low adsorption		

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food processing wast	-	Application of sewage sludge	
	Rating class and	Value	Rating class and	Value
	limiting features	varue	limiting features	varue
	Ī	İ		İ
459A:				
Loxley	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity Depth to	1.00	capacity Depth to	1.00
	saturated zone		saturated zone	1.00
	Ponding	1.00	Low adsorption	1.00
	Too acid	0.94	Too acid	1.00
	Leaching	0.90	Ponding	1.00
Daisybay	 Very limited		 Very limited	
	Filtering	1.00	Filtering	1.00
	capacity	ĺ	capacity	İ
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted	1.00	Low adsorption	1.00
	permeability		Too acid	1.00
	Ponding	1.00	Restricted	1.00
	Too acid	0.94	permeability	
Dawson	Very limited	İ	 Very limited	İ
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Ponding	1.00	Low adsorption	1.00
	Too acid Leaching	0.94	Too acid Ponding	1.00
	Leaching		Ponding	
461A:				
Bowstring	Very limited	1.00	Very limited	1 00
	Filtering capacity	1	Filtering capacity	1.00
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Flooding	1.00	Flooding	1.00
	Low adsorption	1.00	Low adsorption	1.00
	Ponding	1.00	Ponding	1.00
465A:	 		 	
Newson	Very limited	ĺ	Very limited	İ
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Ponding	1.00	Low adsorption	1.00
	Leaching Too acid	0.90	Too acid Ponding	1.00
•	<u> </u>	į	ĺ	į
Meehan	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity Depth to	1.00	capacity Depth to	1.00
	saturated zone	1	saturated zone	1.00
	Droughty	0.97	Droughty	0.97
	Too acid	0.27	Too acid	0.85
	İ	į	İ	į

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food		Application of sewage sludge	
	processing wast			
	Rating class and	Value		Value
	limiting features	<u> </u>	limiting features	<u> </u>
4.50=				
469E:				-
Bigisland	: -		Very limited	
	Slope	1.00	Slope	1.00
	Droughty	1.00	Droughty	1.00
	Cobble content	0.95	Cobble content	0.95
	Too stony Large stones on	0.50	Large stones on	0.08
	the surface	0.08	the surface	
	the surface		Too acid	0.03
Milaca	 Very limited		 Very limited	1
MIIACA	Slope	1.00	Slope	1.00
	Depth to	0.99	Depth to	0.99
	saturated zone	10.33	saturated zone	10.99
	Too stony	0.50	Too acid	0.42
	Too scony	0.11	100 acid	0.42
	100 acid	0.11	 	1
471B:			 	1
Dairyland	 Very limited	 	 Very limited	1
Dailyland	Filtering	1.00	Filtering	1.00
		1	capacity	1
	capacity Depth to	0.99	Low adsorption	1.00
	saturated zone	10.33	Depth to	0.99
	Droughty	0.91	saturated zone	10.99
	Too stony	0.50	Droughty	0.91
	100 BCONY	10.50	Dioughty	10.71
Emmert	 Very limited	i	 Very limited	i
	Filtering	1.00	Filtering	1.00
	capacity	1	capacity	1
	Droughty	1.00	Droughty	1.00
	Too stony	0.50	Too acid	0.03
	Leaching	0.45	1	
	Too acid	0.01	i I	i
		i	İ	i
471C:	İ	i	İ	i
Dairyland	Very limited	i	 Very limited	i
-	Filtering	1.00	Filtering	1.00
	capacity	i	capacity	i
		0.99	Low adsorption	1 00
	Depth to	10.33		1.00
	saturated zone	0.33		0.99
		 0.91	Depth to saturated zone	
	saturated zone	į	Depth to	
	saturated zone Droughty	0.91	Depth to saturated zone	0.99
	saturated zone Droughty Too stony	 0.91 0.50	Depth to saturated zone Droughty	0.99
Emmert	saturated zone Droughty Too stony	 0.91 0.50	Depth to saturated zone Droughty	0.99
Emmert	saturated zone Droughty Too stony Slope	 0.91 0.50	Depth to saturated zone Droughty Slope	0.99
Emmert	saturated zone Droughty Too stony Slope Very limited	 0.91 0.50 0.37	Depth to saturated zone Droughty Slope Very limited	0.99 0.91 0.37
Emmert	saturated zone Droughty Too stony Slope Very limited Filtering	 0.91 0.50 0.37	Depth to saturated zone Droughty Slope Very limited Filtering	0.99 0.91 0.37
Emmert	saturated zone Droughty Too stony Slope Very limited Filtering capacity	 0.91 0.50 0.37 1.00	Depth to saturated zone Droughty Slope Very limited Filtering capacity	0.99 0.91 0.37 1.00
Emmert	saturated zone Droughty Too stony Slope Very limited Filtering capacity Droughty	 0.91 0.50 0.37 1.00	Depth to saturated zone Droughty Slope Very limited Filtering capacity Droughty	0.99 0.91 0.37 1.00
Emmert	saturated zone Droughty Too stony Slope Very limited Filtering capacity Droughty Too stony	 0.91 0.50 0.37 1.00 1.00 0.50	Depth to saturated zone Droughty Slope Very limited Filtering capacity Droughty Slope	0.99 0.91 0.37 1.00 1.00 0.37
Emmert	saturated zone Droughty Too stony Slope Very limited Filtering capacity Droughty Too stony Leaching	0.91 0.50 0.37	Depth to saturated zone Droughty Slope Very limited Filtering capacity Droughty Slope	0.99 0.91 0.37 1.00 1.00 0.37
	saturated zone Droughty Too stony Slope Very limited Filtering capacity Droughty Too stony Leaching	0.91 0.50 0.37	Depth to saturated zone Droughty Slope Very limited Filtering capacity Droughty Slope	0.99 0.91 0.37 1.00 1.00 0.37
	saturated zone Droughty Too stony Slope Very limited Filtering capacity Droughty Too stony Leaching	0.91 0.50 0.37	Depth to saturated zone Droughty Slope Very limited Filtering capacity Droughty Slope	0.99 0.91 0.37 1.00 1.00 0.37
472 A:	saturated zone Droughty Too stony Slope Very limited Filtering capacity Droughty Too stony Leaching Slope	0.91 0.50 0.37	Depth to saturated zone Droughty Slope Very limited Filtering capacity Droughty Slope Too acid	0.99 0.91 0.37 1.00 1.00 0.37
472 A:	saturated zone Droughty Too stony Slope Very limited Filtering capacity Droughty Too stony Leaching Slope	0.91 0.50 0.37	Depth to saturated zone Droughty Slope Very limited Filtering capacity Droughty Slope Too acid	0.99
472 A:	saturated zone Droughty Too stony Slope Very limited Filtering capacity Droughty Too stony Leaching Slope Very limited Depth to	0.91 0.50 0.37	Depth to saturated zone Droughty Slope Very limited Filtering capacity Droughty Slope Too acid Very limited	0.99
472A:	saturated zone Droughty Too stony Slope Very limited Filtering capacity Droughty Too stony Leaching Slope Very limited	0.91 0.50 0.37	Depth to saturated zone Droughty Slope Very limited Filtering capacity Droughty Slope Too acid Very limited Depth to saturated zone	0.99 0.91 0.37 1.00 1.00 0.37 0.03 1.00
472A:	saturated zone Droughty Too stony Slope Very limited Filtering capacity Droughty Too stony Leaching Slope Very limited Depth to saturated zone Flooding	0.91 0.50 0.37	Depth to saturated zone Droughty Slope Very limited Filtering capacity Droughty Slope Too acid Very limited Depth to saturated zone Flooding	0.99 0.91 0.37 1.00 1.00 0.37 0.03 1.00 1.00

Table 21a.--Agricultural Waste Management--Continued

processing waste	Application of sewage sludge	
' <u></u> -	1	
Rating class and Value Rating class and limiting features limiting features	Value	
	İ	
472A:		
Clemens Very limited Very limited Filtering 1.00 Filtering	1.00	
capacity capacity	1	
Depth to 1.00 Depth to	1.00	
saturated zone saturated zone		
Flooding 1.00 Flooding	1.00	
Too stony 0.50 Low adsorption	1.00	
Runoff 0.40 Too acid	0.42	
473A:		
Dairyland Very limited Very limited	i	
Filtering 1.00 Filtering	1.00	
capacity capacity		
Depth to 0.99 Low adsorption	1.00	
saturated zone Depth to	0.99	
Droughty 0.91 saturated zone		
Too stony 0.50 Droughty	0.91	
SkogVery limited Very limited		
Filtering 1.00 Filtering	1.00	
capacity capacity	j	
Droughty 0.99 Low adsorption	1.00	
Depth to 0.86 Droughty	0.99	
saturated zone Depth to	0.86	
Too stony 0.50 saturated zone		
Too acid 0.01 Flooding	0.40	
484A:		
Greenwood Very limited Very limited		
Filtering 1.00 Filtering	1.00	
capacity capacity		
Depth to 1.00 Depth to	1.00	
saturated zone saturated zone		
Ponding 1.00 Low adsorption Too acid 0.94 Too acid	1.00	
Leaching 0.90 Ponding	1.00	
į į į	į	
BesemanVery limited Very limited		
Depth to 1.00 Depth to saturated zone saturated zone	1.00	
saturated zone saturated zone Saturated zone 1.00 Low adsorption	1.00	
Too acid 0.94 Too acid	1.00	
Leaching 0.90 Ponding	1.00	
Restricted 0.41 Restricted	0.31	
permeability permeability	j	
485C:		
LuptonVery limited Very limited		
Depth to 1.00 Depth to	1.00	
saturated zone saturated zone		
Runoff 0.40 Low adsorption	1.00	
Maria de la lacación lacación de lacación		
Tawas Very limited Very limited Filtering 1.00 Filtering	1.00	
Filtering 1.00 Filtering capacity capacity	1	
Depth to 1.00 Depth to	1.00	
saturated zone saturated zone		
Ponding 1.00 Low adsorption	1.00	
	1.00	
Runoff 0.40 Ponding	11.00	

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food		Application of sewage sludg		
	processing wast			1 -	
	Rating class and limiting features	Value	Rating class and limiting features	Value	
		<u> </u>		1	
495B:		İ		İ	
Karlsborg	Very limited	j	Very limited	j	
	Filtering	1.00	Filtering	1.00	
	capacity		capacity		
	Depth to	1.00	Depth to	1.00	
	saturated zone	1 00	saturated zone	1 00	
	Restricted permeability	1.00	Restricted permeability	1.00	
	Runoff	0.40	Too acid	0.77	
	Too acid	0.22			
	j	j	İ	j	
Grettum	Very limited		Very limited		
	Filtering	1.00	Filtering	1.00	
	capacity		capacity		
	Leaching Too acid	0.45	Too acid Droughty	0.85	
	Droughty	0.27 0.02	Droughty	0.02	
			 	i	
Perida	Very limited	j	Very limited	j	
	Filtering	1.00	Filtering	1.00	
	capacity		capacity		
	Restricted	1.00	Restricted	1.00	
	permeability		permeability	0.85	
	Too acid Depth to	0.27	Too acid Depth to	0.09	
	saturated zone		saturated zone		
495C:					
Karlsborg	Very limited	1 00	Very limited	1 00	
	Filtering capacity	1.00	Filtering capacity	1.00	
	Depth to	1.00	Depth to	1.00	
	saturated zone		saturated zone		
	Restricted	1.00	Restricted	1.00	
	permeability		permeability		
	Runoff	0.40	Too acid	0.77	
	Too acid	0.22	Slope	0.04	
Grettum	 Very limited	 	 Very limited	l	
	Filtering	1.00	Filtering	1.00	
	capacity	İ	capacity	İ	
	Leaching	0.45	Too acid	0.85	
	Too acid	0.27		0.04	
	Slope	0.04	Droughty	0.02	
	Droughty	0.02	 		
Perida	 Very limited		 Very limited		
	Filtering	1.00	Filtering	1.00	
	capacity		capacity		
	Restricted	1.00	Restricted	1.00	
	permeability		permeability		
	Too acid	0.27	Too acid	0.85	
	Depth to saturated zone	0.09	Depth to saturated zone	0.09	
	Slope	0.04	Slope	0.04	
	į	İ	İ	i	

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food		Application of sewage sludg	re
	processing wast			1
	Rating class and limiting features	Value	Rating class and limiting features	Value
				İ
495D:				
Karlsborg	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity Depth to	1.00	capacity Depth to	1.00
	saturated zone	1	saturated zone	1
	Restricted	1.00	Restricted	1.00
	permeability		permeability	
	Slope	1.00	Slope	1.00
	Runoff	0.40	Too acid	0.77
Grettum	 Very limited		 Very limited	
02000	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Slope	1.00	Slope	1.00
	Leaching	0.45	Too acid	0.85
	Too acid	0.27	Droughty	0.02
	Droughty	0.02		
Perida	 Very limited		 Very limited	
101144	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Restricted	1.00	Restricted	1.00
	permeability	İ	permeability	j
	Slope	1.00	Slope	1.00
	Too acid	0.27	Too acid	0.85
	Depth to	0.09	Depth to	0.09
	saturated zone		saturated zone	
496B:				
Karlsborg	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone Restricted	1.00	saturated zone Restricted	1.00
	permeability	1.00	permeability	1
	Too acid	0.22	Too acid	0.77
496C: Karlsborg	 Very limited		 Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone	İ	saturated zone	İ
	Restricted	1.00	Restricted	1.00
	permeability		permeability	
	Too acid	0.22	Too acid	0.77
	Slope	0.04	Slope	0.04
496D:				
Karlsborg	_		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone Restricted	1.00	saturated zone Restricted	1.00
	Restricted permeability	1	Restricted permeability	1 - 00
	herweanttrch	1		!
	Slope	1.00	Slope	1.00
	Slope Too acid	1.00	Slope Too acid	1.00

Table 21a.--Agricultural Waste Management--Continued

Map symbol	Application of		Application	
and soil name	manure and food	l -	of sewage sludg	re
	processing wast	e		
	Rating class and	Value		Value
	limiting features		limiting features	
497A:				
Meenon	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Restricted	1.00	Restricted	1.00
	permeability		permeability	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Too acid	0.08	Too acid	0.31
	Droughty	0.03	Droughty	0.03
521A:				
Dody	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity	ļ	capacity	ļ
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted	1.00	Low adsorption	1.00
	permeability		Restricted	1.00
	Ponding	1.00	permeability	ļ
	Leaching	0.50	Ponding	1.00
523A:				
Nokasippi	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Ponding	1.00	Low adsorption	1.00
	Leaching	0.70	Ponding	1.00
	Too acid	0.22	Too acid	0.77
529B:			 	
Perida	 Very limited	1	 Very limited	l I
relida	Filtering	1.00	Filtering	1.00
	capacity	1	capacity	1
	Restricted	1.00	Restricted	1.00
	permeability	1	permeability	
	Too acid	0.22	Too acid	0.77
	Depth to	0.09	Depth to	0.09
	saturated zone		saturated zone	
		i	 	i
531A:		i	 	i
Stengel	 Very limited	i	 Very limited	i
3	Filtering	1.00	Droughty	1.00
	capacity	i	Filtering	1.00
	Depth to	1.00	capacity	i
	saturated zone	i	Depth to	1.00
	Droughty	1.00	saturated zone	İ
	Depth to	0.99	Depth to	0.99
	discontinuity	İ	discontinuity	ĺ
	Leaching	0.70	Too acid	0.31
	_			
542B:				
	Very limited		Very limited	
Haugen, very stony	1.027 22002	1000	Depth to	0.99
Haugen, very stony	Depth to	0.99		
Haugen, very stony	-	0.99	saturated zone	
Haugen, very stony	Depth to	0.99 0.89	: -	 0.91
Haugen, very stony	Depth to saturated zone	į	saturated zone	 0.91 0.78
Haugen, very stony	Depth to saturated zone Restricted	į	saturated zone Too acid	1
Haugen, very stony	Depth to saturated zone Restricted permeability	0.89	saturated zone Too acid Restricted	1

Table 21a.--Agricultural Waste Management--Continued

limiting features limiting features	Value
Rating class and Value Rating class and limiting features limiting features	0.99
limiting features limiting features	0.99
542B: Haugen	
Haugen	
Depth to 0.99 Depth to saturated zone saturated zone saturated zone Restricted 0.89 Too acid permeability Restricted Too acid 0.32 permeability S42C: Haugen, very stony Very limited Very limited Depth to 0.99 Depth to	
saturated zone saturated zone Restricted 0.89 Too acid permeability Restricted Too acid 0.32 permeability 542C: Haugen, very stony Very limited Very limited Depth to 0.99 Depth to	
Restricted 0.89 Too acid permeability Restricted Too acid permeability Restricted Too acid permeability Permeability Restricted Permeability Permeability Restricted Permeability Perm	
permeability Restricted Too acid 0.32 permeability 542C: Haugen, very stony Very limited Very limited Depth to 0.99 Depth to	
Too acid 0.32 permeability	0.91
	0.78
Haugen, very stony Very limited Very limited Depth to 0.99 Depth to	
Depth to 0.99 Depth to	
	0 00
saturated zone saturated zone	0.99
Restricted 0.89 Too acid	0.91
permeability Restricted	0.78
Too stony 0.50 permeability	0.78
Too acid 0.32 Slope	0.04
Slope 0.04	
i ⁻ i i i	
Haugen Very limited Very limited	
Depth to 0.99 Depth to	0.99
saturated zone saturated zone	
Restricted 0.89 Too acid	0.91
permeability Restricted Too acid 0.32 permeability	0.78
Too acid 0.32 permeability	0.04
Slope 0.04 Slope	0.04
544F:	
Menahga Very limited Very limited	
Slope 1.00 Filtering	1.00
Filtering 1.00 capacity	
	1.00
	1.00
Leaching 0.45 Too acid	0.99
Droughty 0.40 Droughty	0.40
MahtomediVery limited Very limited	
	1.00
Filtering 1.00 capacity	
	1.00
1 13 12	1.00
Leaching	0.42
100 acid 0.11	
553B:	
Branstad Very limited Very limited	
1 - 1 - 1	0.99
saturated zone saturated zone	
553C:	
Branstad Very limited Very limited	
Depth to 0.99 Depth to	0.99
saturated zone saturated zone	
Slope 0.04 Slope	0.04
553D:	
Branstad Very limited Very limited	
	1.00
Depth to 0.99 Depth to	0.99
saturated zone saturated zone	

Table 21a.--Agricultural Waste Management--Continued

Map symbol	Application of		Application	
and soil name	manure and food		of sewage sludg	re
	processing wast	e		
	Rating class and	Value		Value
	limiting features	<u> </u>	limiting features	<u> </u>
555A:				
Fordum	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity	1 00	capacity	1.00
	Depth to saturated zone	1.00	Depth to saturated zone	11.00
	Flooding	1.00	Flooding	1.00
	Ponding	1.00	Ponding	1.00
	Runoff	0.40	Fonding	1
	Kunorr	1	 	i
557B:	 		 	i
Shawano	 Very limited		 Very limited	i
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Droughty	0.49	Droughty	0.49
	Leaching	0.45	Too acid	0.31
	Too acid	0.08		i
		İ		i
557C:		i		i
Shawano	 Very limited	i	 Very limited	i
	Filtering	1.00	Filtering	1.00
	capacity	İ	capacity	İ
	Droughty	0.49	Droughty	0.49
	Leaching	0.45	Too acid	0.31
	Too acid	0.08	Slope	0.04
	Slope	0.04		
557D:				
Shawano	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Slope	1.00	Slope	1.00
	Droughty	0.49	Droughty	0.49
	Leaching	0.45	Too acid	0.31
	Too acid	0.08		
586A:				
Chelmo	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity	1.00	capacity	1 00
	Depth to saturated zone	11.00	Depth to saturated zone	1.00
		1 00		1 00
	Restricted permeability	1.00	Restricted permeability	1.00
	Ponding	1.00	Ponding	1.00
	Runoff	0.40	Fonding	1
	Kunorr	1	 	i
600A:	! 	i	! 	i
Haplosaprists	Not rated	i	Not rated	i
	İ	i	İ	i
Psammaquents	Not rated	i	 Not rated	i
•	İ	i	İ	i
615B:	İ	i	İ	i
Cress	Very limited	i	 Very limited	i
	Filtering	1.00	Filtering	1.00
	capacity	i	capacity	i
	Droughty	0.60	Droughty	0.60
	Leaching	0.45	Too acid	0.31
	Too acid	0.08		İ
	İ	İ	İ	İ

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food		Application of sewage sludge	
	processing wast			
	Rating class and	Value		Value
	limiting features		limiting features	
615C:	 		 	
	 Very limited		 Very limited	
01000	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Droughty	0.60	Droughty	0.60
	Leaching	0.45	Too acid	0.31
	Too acid	0.08	Slope	0.04
	Slope	0.04		
	[[
615D:				
Cress	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity	1 00	capacity	1 00
	Slope	1.00	Slope Droughty	1.00
	Droughty Leaching	0.45	Too acid	0.31
	Too acid	0.43	100 acid	0.31
	100 4014		 	
620C:		i		i
Lundeen	Somewhat limited	i	 Very limited	i
	Too stony	0.50	Low adsorption	1.00
	Too acid	0.50	Too acid	0.99
	Depth to bedrock	0.46	Depth to bedrock	0.46
	Runoff	0.40		
Haustrup	-		Very limited	
	Depth to bedrock		Depth to bedrock	
	Droughty	0.95	Low adsorption	1.00
	Too acid	0.82	Too acid	1.00
	Too stony Runoff	0.50	Droughty	0.95
	RUNOII	0.40	 	
Rock outcrop	 Not rated		Not rated	
		İ		i
621A:		İ		i
Bjorkland	Very limited	İ	Very limited	İ
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Restricted	1.00	Low adsorption	1.00
	permeability		Restricted	1.00
	Ponding	1.00		
	Too acid	0.62	Too acid	1.00
C223.	 		 	
623A:	 Vorus limited	I	 Very limited	I
Capitola	Depth to	1.00	Depth to	1.00
	saturated zone	1.00	saturated zone	1
	Ponding	1.00	Low adsorption	1.00
	Leaching	0.70	Ponding	1.00
	Too stony	0.50	Depth to dense	0.46
	Depth to dense	0.46	material	i
	material	İ	Too acid	0.31

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food processing wast	-	Application of sewage sludge	
			 Dation	177-1
	Rating class and limiting features	value	Rating class and limiting features	Value
	İ	İ		İ
624A:	!	!	!	ļ
Ossmer	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity Depth to	1.00	capacity Depth to	1.00
	saturated zone	1	saturated zone	1
	Too acid	0.08	Too acid	0.31
				ļ
631A: Giese	 Very limited		 Very limited	
Glese	Depth to	1.00	Depth to	1.00
	saturated zone	1	saturated zone	1
	Restricted	1.00	Low adsorption	1.00
	permeability	i	Restricted	1.00
	Ponding	1.00	permeability	İ
	Leaching	0.70	Ponding	1.00
	Too stony	0.50	Too acid	0.96
632A:	 		 	
Aftad	 Very limited		 Very limited	1
	Depth to	0.99	Depth to	0.99
	saturated zone	į	saturated zone	İ
	Restricted	0.41	Too acid	0.31
	permeability		Restricted	0.30
	Too acid	0.08	permeability	
632B:	 		 	
Aftad	 Very limited	i	 Very limited	
	Depth to	0.99	Depth to	0.99
	saturated zone	İ	saturated zone	Ì
	Restricted	0.41	Too acid	0.31
	permeability		Restricted	0.30
	Too acid	0.08	permeability	
632C:	 		 	1
Aftad	Very limited	į	Very limited	j
	Depth to	0.99	Depth to	0.99
	saturated zone		saturated zone	
	Restricted	0.41	Too acid	0.31
	permeability Too acid	10.00	Restricted permeability	0.30
	Slope	0.08	Slope	0.04
	51090		51090	
634C:	İ	İ	İ	Ì
Drylanding	: -	1	Very limited	
	Depth to bedrock			1.00
	Droughty	1.00	. –	
	Cobble content Runoff	0.87	Low adsorption Cobble content	1.00
	Large stones on	0.40	Large stones on	0.08
	the surface		the surface	
	[1	[1
Beartree		!	Very limited	
	Depth to	1.00		1.00
	saturated zone	1 00	Depth to	1.00
	Depth to bedrock Droughty	1.00	saturated zone Depth to bedrock	1 00
	Dense layer	1.00	Low adsorption	1.00
	Ponding	1.00	:	1.00
	İ			İ
Rock outcrop	Not rated	1	Not rated	ļ
		I		

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food	-	Application of sewage sludge	
	processing wast			
	Rating class and	Value		Value
	limiting features	<u> </u>	limiting features	<u> </u>
635C:	[
Drylanding	 Very limited	i	 Very limited	i
-	Depth to bedrock	1.00	Droughty	1.00
	Droughty	1.00	Depth to bedrock	1.00
	Cobble content	0.87	Low adsorption	1.00
	Runoff	0.40	Cobble content	0.87
	Large stones on	0.08	Flooding	0.40
	the surface		l	
Beartree	 Verv limited		 Very limited	
Dourcioo	Depth to	1.00	Droughty	1.00
	saturated zone	i	Depth to	1.00
	Depth to bedrock	1.00	saturated zone	İ
	Droughty	1.00	Depth to bedrock	1.00
	Dense layer	1.00	Low adsorption	1.00
	Ponding	1.00	Ponding	1.00
Do ale continue			37.4	
Rock outcrop	Not rated	1	Not rated	
648B:			 	
Sconsin	 Very limited	i	 Very limited	i
	Depth to	1.00	Depth to	1.00
	saturated zone	İ	saturated zone	İ
	Depth to dense	0.54	Depth to dense	0.54
	material		material	
	Too acid	0.08	Too acid	0.31
669D:			 	
Fremstadt, stony	 Very limited	İ	 Very limited	i
-	Slope	1.00	Slope	1.00
	Too stony	0.50	Too acid	0.91
	Too acid	0.32	Filtering	0.01
	Filtering	0.01	capacity	
	capacity			
Pomroy	 Very limited	1	 Very limited	
romroy	Slope	1.00	Filtering	1.00
	Filtering	1.00	capacity	
	capacity		Slope	1.00
	Depth to	0.99	Depth to	0.99
	saturated zone	į	saturated zone	į
	Too acid	0.32	Too acid	0.91
	Droughty	0.05	Droughty	0.05
CE15				
671B: Spoonerhill, stony	 Very limited		 Very limited	
Spoonermit, scony	Depth to	0.99	Depth to	0.99
	saturated zone		saturated zone	
	Leaching	0.45	Too acid	0.31
	Restricted	0.41	Restricted	0.31
	permeability	į	permeability	į
		10 00		10 04
	Too acid	0.08	Droughty	0.04
	Too acid Droughty	0.08	Droughty Filtering	0.04

Table 21a.--Agricultural Waste Management--Continued

Map symbol	Application of		Application	
and soil name	manure and food		of sewage sludg	е
	processing wast			1
	Rating class and	Value		Value
	limiting features	<u> </u>	limiting features	<u> </u>
671D	1		l I	
671B: Spoonerhill	 Vorus limited		 Very limited	
Spoonermili	Depth to	0.99	Depth to	0.99
	saturated zone	0.55	saturated zone	
	Leaching	0.45	Too acid	0.31
	Restricted	0.41	Restricted	0.31
	permeability	i	permeability	i
	Too acid	0.08	Droughty	0.04
	Droughty	0.04	Filtering	0.01
			capacity	
706A:				
Winterfield	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity	!	capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Flooding	1.00	Flooding	1.00
	Leaching	0.90	Droughty	0.20
	Droughty	0.20	İ	
Totagatic	 Very limited	I	 Very limited	
iocagacie	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	1
	Flooding	1.00	Flooding	1.00
	Ponding	1.00	Ponding	1.00
	Runoff	0.40	Too acid	0.42
715A:				
Mora	Very limited		Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Too stony	0.50	Too acid	0.42
	Too acid	0.11	l I	
717B:	l I		İ	
Milaca	 Very limited		 Very limited	
MIIdod	Depth to	0.99	Depth to	0.99
	saturated zone		saturated zone	
	Too stony	0.50	Too acid	0.42
	Too acid	0.11		i
	İ	i		i
717C:		İ		ĺ
Milaca	Very limited		Very limited	
	Depth to	0.99	Depth to	0.99
	saturated zone		saturated zone	
	Too stony	0.50	Too acid	0.42
	Too acid	0.11	Slope	0.04
	Slope	0.04	 	1
720E.	 	I	 	1
720F: Haustrup	 Very limited	1	 Very limited	1
madscrup	Depth to bedrock	1 00	Depth to bedrock	1 00
	Depen to bearock	1.00	Low adsorption	1.00
	Slope			
	Slope Droughty	1	Slope	1.00
	Slope Droughty Too acid	0.95	Slope Too acid	1.00
	Droughty	0.95	-	

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food		Application of sewage sludge	
	processing wast			1 ** - 3
	Rating class and limiting features	value	Rating class and limiting features	Value
720F: Lundeen	 Very limited		 Very limited	
	Slope	1.00	Low adsorption	1.00
	Too stony	0.50	Slope	1.00
	Too acid	0.50	Too acid	0.99
	Depth to bedrock	0.46	Depth to bedrock	0.46
	Runoff	0.40	 	į
Rock outcrop	 Not rated 		 Not rated 	
726B:				
Sissabagama	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Restricted	0.89	Depth to	0.86
	permeability		saturated zone	
	Depth to	0.86	Restricted	0.78
	saturated zone		permeability	
	Leaching	0.45	Too acid	0.31
	Too acid	0.08	 	
742B:		İ		
Milaca	Very limited	İ	Very limited	İ
	Depth to	0.99	Depth to	0.99
	saturated zone		saturated zone	
	Too stony	0.50	Too acid	0.42
	Too acid	0.11		
742C:	 			
Milaca	Very limited	į	Very limited	İ
	Depth to	0.99	Depth to	0.99
	saturated zone	İ	saturated zone	İ
	Too stony	0.50	Too acid	0.42
	Too acid	0.11	Slope	0.04
	Slope	0.04		
742D:	 		 	
Milaca	Very limited	i	 Very limited	i
	Slope	1.00	Slope	1.00
	Depth to	0.99	Depth to	0.99
	saturated zone	İ	saturated zone	İ
	Too stony	0.50	Too acid	0.42
	Too acid	0.11		
755A:	 		 	
Moppet	 Very limited	i	 Very limited	
	Filtering	1.00	Filtering	1.00
	capacity	i	capacity	i
	Depth to	0.86	Flooding	1.00
	saturated zone	İ	Too acid	1.00
	Too acid	0.62	Depth to	0.86
	Flooding	0.60	saturated zone	į
Fordum	 Very limited		 Very limited	
1 O1 Qum	Filtering	1.00	Very limited Filtering	1.00
	capacity	1	capacity	1
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Flooding	1.00	Flooding	1.00
	Ponding	1.00	Ponding	1.00
	Runoff	0.40	, , , , , , , , , , , , , , , , , , ,	
	İ	İ	İ	į

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food		Application of sewage sludge	
	processing wast	-		1
	Rating class and limiting features	Value	Rating class and limiting features	Value
		İ		
771A:	į	İ	İ	į
Lenroot	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity Depth to	10 00	capacity Depth to	 n aa
	saturated zone	0.99	saturated zone	0.99
	Droughty	0.89	Droughty	0.89
	Leaching	0.45	Too acid	0.42
	Too acid	0.11		
0105				
812B: Mora	 Very limited		 Very limited	
MOIA	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Too stony	0.50	Too acid	0.42
	Too acid	0.11		İ
		!		!
825A:	 		 Very limited	
Meehan	Very limited Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone	į	saturated zone	į
	Droughty	0.97	Droughty	0.97
	Too acid	0.27	Too acid	0.85
896A:	 		 	
	 Very limited		 Very limited	1
	Filtering	1.00	Droughty	1.00
	capacity	į	Filtering	1.00
	Droughty	1.00	capacity	
	Depth to	0.99	Depth to	0.99
	saturated zone		saturated zone	
	Leaching Too acid	0.45	Too acid	0.85
	100 aciu		 	i
980A:	İ	į		i
Soderbeck	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Droughty	0.96	Low adsorption	1.00
	Too stony	0.50	Droughty	0.96
	Cobble content	0.50	Cobble content	0.50
1070C: Fremstadt	 Companies limited		 Compathst limited	
Fremstadt	Leaching	0.45	Somewhat limited Too acid	0.31
	Slope	0.16	Slope	0.16
	Too acid	0.08	Filtering	0.01
	Filtering	0.01	capacity	į
	capacity	ļ		
Cmaga	 		 	
Cress	Very limited Filtering	1.00	Very limited Filtering	1.00
	capacity		capacity	
		0.60	Droughty	0.60
	Droughty	0.00		
	Droughty Leaching	0.45	Too acid	0.31
		1		

Table 21a.--Agricultural Waste Management--Continued

	1		1		
Map symbol	Application of		Application		
and soil name	manure and food		of sewage sludge		
	processing wast				
	Rating class and	Value	Rating class and	Value	
	limiting features		limiting features	i	
		Ī		Ī	
1070D:					
Fremstadt	Very limited		Very limited		
	Slope	1.00	Slope	1.00	
	Leaching	0.45	Too acid	0.31	
	Too acid	0.08	Filtering	0.01	
	Filtering	0.01	capacity		
	capacity				
Cress	 Very limited		 Very limited		
	Filtering	1.00	Filtering	1.00	
	capacity	İ	capacity	İ	
	Slope	1.00	Slope	1.00	
	Droughty	0.60	Droughty	0.60	
	Leaching	0.45	Too acid	0.31	
	Too acid	0.08	į	į	
1080B:	 		 		
Spoonerhill	 Very limited	i	 Very limited	i	
-	Depth to	0.99	Depth to	0.99	
	saturated zone	i	saturated zone	i	
	Leaching	0.45	Too acid	0.31	
	Restricted	0.41	Restricted	0.31	
	permeability	i	permeability	i	
	Too acid	0.08	Droughty	0.04	
	Droughty	0.04	Filtering	0.01	
		į	capacity	į	
Spoonerhill, stony	 Very limited		 Very limited		
-	Depth to	0.99	Depth to	0.99	
	saturated zone	i	saturated zone	i	
	Leaching	0.45	Too acid	0.31	
	Restricted	0.41	Restricted	0.31	
	permeability	i	permeability	i	
	Too acid	0.08	Droughty	0.04	
	Droughty	0.04	Filtering	0.01	
		į	capacity	į	
Cress	 Very limited		 Very limited		
	Filtering	1.00	Filtering	1.00	
	capacity	i	capacity	i	
	Droughty	0.60	Droughty	0.60	
	Leaching	0.45	Too acid	0.31	
	Too acid	0.08		į	
2002:	 		 		
Udorthents, earthen	İ	i	İ	i	
dams	Not rated	į	Not rated	į	
2015:	 		 		
Pits	Not rated		 Not rated		
2050:		i			
Landfill	Not rated		Not rated		

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food	l-	Application of sewage sludg	e
	processing wast			
	Rating class and limiting features	Value	Rating class and limiting features	Value
		 		
3011A:		1		
Barronett		ļ	Very limited	!
	Depth to	1.00	Depth to	1.00
	saturated zone	ļ	saturated zone	!
	Ponding	1.00	Ponding	1.00
	Leaching	0.70	Too acid	0.31
	Restricted	0.41	Restricted	0.31
	permeability		permeability	
	Too acid	0.08		
3082E:		i		i
Braham	Very limited	İ	Very limited	İ
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Slope	1.00	Slope	1.00
	Too acid	0.01	Too acid	0.03
Shawano	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Slope	1.00	Slope	1.00
	Droughty	0.49	Droughty	0.49
	Leaching	0.45	Too acid	0.31
	Too acid	0.08		
3114A:	 			
Saprists	 Very limited	i	 Very limited	1
2421202	Ponding	1.00	Ponding	1.00
	Depth to	1.00	Depth to	1.00
	saturated zone	i	saturated zone	1
	Runoff	0.40	Low adsorption	1.00
	Too acid	0.08	Too acid	0.31
				!
Aquents	Very limited	ļ	Very limited	!
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Ponding	1.00	Ponding	1.00
	Depth to	1.00	Depth to	1.00
	saturated zone Too acid	0.62	saturated zone Low adsorption	1.00
	Runoff	0.40	Too acid	1.00
	Kunori		100 actu	
Aquepts	 Very limited	i	 Very limited	i
	Filtering	1.00	Filtering	1.00
	capacity	İ	capacity	İ
	Ponding	1.00	Ponding	1.00
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Runoff	0.40	Low adsorption	1.00
	Too acid	0.02	Too acid	0.07
3125A: Meehan	 Very limited		 Very limited	
weengn	Very limited Filtering	1.00	Very limited Filtering	1.00
	Filtering capacity	1	Filtering capacity	1
	Depth to	1.00	Depth to	1.00
	saturated zone	1	saturated zone	1
	Droughty	0.94	Droughty	0.94
	Leaching	0.45	Too acid	0.85
	Too acid	0.27		

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food		Application of sewage sludge	
	processing wast		<u> </u>	
	Rating class and	Value		Value
	limiting features	<u> </u>	limiting features	1
3126A:		İ		
Wurtsmith	Very limited	į	Very limited	j
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	0.99	Too acid	1.00
	saturated zone	0.85	Depth to	0.99
	Droughty Too acid	0.78	saturated zone Droughty	0.85
	Leaching	0.45	Dioughty	0.05
				İ
3312B:	İ	į	İ	j
Glendenning, very				
stony	Very limited		Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Too stony	0.50	Too acid	0.31
	Restricted	0.41	Restricted	0.31
	permeability Too acid	0.08	permeability	
	100 acid	0.00	 	
Glendenning	 Very limited	i	 Very limited	
5	Depth to	1.00	Depth to	1.00
	saturated zone	į	saturated zone	İ
	Restricted	0.41	Too acid	0.31
	permeability		Restricted	0.31
	Too acid	0.08	permeability	
3336A:	l I		 	
Fenander	 Very limited		 Very limited	l
renander	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Ponding	1.00	Ponding	1.00
	Leaching	0.70	Restricted	0.31
	Restricted	0.41	permeability	
	permeability			
0.4.0.0				
3403A: Loxley	 Town limited		 Town limited	
HOXIEY	Very limited Filtering	1.00	Very limited Filtering	1.00
	capacity		capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone	i	saturated zone	i
	Ponding	1.00	Low adsorption	1.00
	Too acid	0.94	Too acid	1.00
	Leaching	0.90	Ponding	1.00
Beseman			Very limited	1 00
	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Ponding	1.00	!	1.00
	Too acid	0.94	Too acid	1.00
	Leaching	0.90	Ponding	1.00
	Restricted	0.41	Restricted	0.31
	permeability	İ	permeability	İ

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food processing wast		Application of sewage sludge	
	·		 Dating along and	1 ** - 1
	Rating class and limiting features	Value 	Rating class and limiting features	Value
				Ī
3403A: Dawson	 Very limited		 	
Dawson	Filtering	1.00	Very limited Filtering	1.00
	capacity		capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone	İ	saturated zone	į
	Ponding	1.00	Low adsorption	1.00
	Too acid	0.94	Too acid	1.00
	Leaching	0.90	Ponding	1.00
3429B:	 		 	
Lara	Very limited	j	Very limited	į
	Restricted	1.00	Restricted	1.00
	permeability		permeability	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Filtering	0.01	Filtering	0.01
	capacity	 	capacity	
3429C:		İ		İ
Lara	Very limited	1	Very limited	
	Restricted	1.00	Restricted	1.00
	permeability		permeability	
	Depth to	1.00	Depth to	1.00
	saturated zone	0.04	saturated zone	
	Slope Filtering	0.04 0.01	Slope Filtering	0.04
	capacity		capacity	
24462				
3446A: Newson				
Newson	Very limited Filtering	1.00	Very limited Filtering	1.00
	capacity	1	capacity	1
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Ponding	1.00	Low adsorption	1.00
	Too acid	0.62	Too acid	1.00
	Runoff	0.40	Ponding	1.00
3448B:	 	 	 	
Grettum	 Very limited	İ	 Very limited	i
	Filtering	1.00	Filtering	1.00
	capacity		capacity	İ
	Too acid	0.27	Too acid	0.85
	Droughty	0.02	Droughty	0.02
3448C:	[[
Grettum	 Very limited	İ	 Very limited	İ
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Too acid	0.27	Too acid	0.85
	Slope	0.04	Slope	0.04
	Slope Droughty	0.02	Droughty	0.02

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food		Application of sewage sludg	re
	processing wast		<u> </u>	1
	Rating class and limiting features	Value	Rating class and limiting features	Value
		İ		İ
3510B:	!			
Pomroy	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity Depth to	0.99	capacity Depth to	0.99
	saturated zone	0.55	saturated zone	0.55
	Too stony	0.50	Too acid	0.91
	Too acid	0.32	Droughty	0.05
	Droughty	0.05	 	
Fremstadt	Somewhat limited		 Somewhat limited	
	Too stony	0.50	Too acid	0.91
	Too acid	0.32	Filtering	0.01
	Filtering capacity	0.01	capacity	
Fremstadt, stony	 Somewhat limited		 Somewhat limited	
	Too acid	0.32	Too acid	0.91
	Filtering	0.01	Filtering	0.01
	capacity		capacity	
3510C:	 	į	1	į
Pomroy	Very limited Filtering	1.00	Very limited Filtering	1.00
	capacity	1	capacity	1
	Depth to	0.99	Depth to	0.99
	saturated zone	i	saturated zone	i
	Too stony	0.50	Too acid	0.91
	Too acid	0.32	Slope	0.16
	Slope	0.16	Droughty 	0.05
Fremstadt	Somewhat limited		Somewhat limited	
	Too acid	0.32	Too acid	0.91
	Slope	0.16	Slope	0.16
	Filtering capacity	0.01	Filtering capacity	0.01
	capacity		capacity	
Fremstadt, stony	Somewhat limited	i	Somewhat limited	İ
	Too stony	0.50	Too acid	0.91
	Too acid	0.32	Slope	0.16
	Slope	0.16	Filtering	0.01
	Filtering capacity	0.01	capacity	
3511A:			 	
Bushville	 Very limited		 Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Droughty	0.23	Too acid	0.42
	Too acid	0.11	Droughty 	0.23
3516A: Slimlake	 Very limited		 Very limited	
DIIMIGNE-3	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	0.86	Depth to	0.86
		i		i
	saturated zone		saturated zone	
	saturated zone Too acid Droughty	0.11	saturated zone Too acid Droughty	0.42

Table 21a.--Agricultural Waste Management--Continued

Map symbol and soil name	Application of manure and food	-	Application of sewage sludg	e
	processing wast	e		
	Rating class and limiting features	Value	Rating class and limiting features	Value
		<u> </u>		1
3625A:	İ	į		İ
Lino	Very limited		Very limited	
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to saturated zone	1.00	Depth to saturated zone	1.00
	Leaching	0.45	Too acid	0.67
	Droughty	0.33	Droughty	0.33
	Too acid	0.18		
3626A:	 		 	
Crex	 Very limited	i	 Very limited	i
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Depth to	0.99	Low adsorption	1.00
	saturated zone		Too acid	1.00
	Too acid	0.62	Depth to	0.99
	Droughty	0.01	saturated zone Droughty	0.01
	 		Dioughty	
3629B:				
Perida	Very limited	1.00	Very limited	1 00
	Filtering capacity	1.00	Filtering capacity	1.00
	Restricted	1.00	Restricted	1.00
	permeability		permeability	
	Leaching	0.45	Too acid	0.85
	Too acid	0.27	Depth to	0.09
	Depth to	0.09	saturated zone	İ
	saturated zone		 	
3636B:	 		 	
Plainbo	Very limited	ĺ	Very limited	İ
	Filtering	1.00	Filtering	1.00
	capacity		capacity	
	Droughty	1.00	Low adsorption	1.00
	Depth to bedrock Too acid	1	Droughty Too acid	1.00
	Too acid	0.32	Depth to bedrock	
3636C:				
	 Very limited		 Very limited	
	Filtering	1.00	Filtering	1.00
	capacity	i	capacity	
	Droughty	1.00	:	1.00
	Depth to bedrock	0.46	Droughty	1.00
	Too acid	0.32	!	0.91
	Slope	0.04	Depth to bedrock	0.46
M-W:				
Miscellaneous water	Not rated		Not rated	
W:	 		[
Water	Not rated		Not rated	
				1

Table 21b.--Agricultural Waste Management

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. "Not rated" indicates that data are not available or that no rating is applicable. See text for further explanation of ratings in this table)

Map symbol	Disposal of		Overland flow of	
and soil name	wastewater		wastewater	
	by irrigation			
	Rating class and	Value		Value
	limiting features		limiting features	<u> </u>
3A:	 	 		
Totagatic	 Very limited	i	 Very limited	i
3	Filtering	1.00	Flooding	1.00
	capacity	i	Seepage	1.00
	Depth to	1.00	Depth to	1.00
	saturated zone	i	saturated zone	i
	Flooding	1.00	Ponding	1.00
	Ponding	1.00	Too acid	0.77
	Too acid	0.77		į
Bowstring	 Very limited		 Very limited	
_	Filtering	1.00	Flooding	1.00
	capacity	i	Depth to	1.00
	Depth to	1.00	saturated zone	İ
	saturated zone	İ	Low adsorption	1.00
	Low adsorption	1.00	Seepage	1.00
	Flooding	1.00	Ponding	1.00
	Ponding	1.00	 	
Ausable	 Very limited		 Very limited	
	Filtering	1.00	Flooding	1.00
	capacity		Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Seepage	1.00
	Flooding	1.00	Ponding	1.00
	Ponding	1.00	Too acid	0.07
	Too acid	0.07	 	
12A:				
Makwa	Very limited		Very limited	
	Depth to	1.00	Flooding	1.00
	saturated zone		Depth to	1.00
	Flooding	1.00	saturated zone	
	Restricted	1.00	Seepage	1.00
	permeability		Ponding	1.00
	Large stones on the surface	1.00	Stone content	0.84
	Ponding	1.00		į
22A:				
Comstock	Very limited	İ	 Very limited	İ
	Depth to	1.00	Seepage	1.00
	saturated zone	İ	Depth to	1.00
	Too acid	0.31	saturated zone	İ
	Restricted	0.31	Too acid	0.31

Table 21b.--Agricultural Waste Management--Continued

Map symbol	Disposal of		Overland flow o	f
and soil name	wastewater		wastewater	
	by irrigation			
		Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	<u> </u>
27A:	 	 	 	
Scott Lake	 Very limited	i	 Very limited	i
	Filtering	1.00	Seepage	1.00
	capacity	İ	Depth to	0.86
	Depth to	0.86	saturated zone	
	saturated zone		Too acid	0.31
	Too acid	0.31		
	Droughty	0.05		
28B:	 		 	
Haugen, very stony	Very limited	ĺ	Very limited	
	Depth to	0.99	Seepage	1.00
	saturated zone		Depth to	0.99
	Too acid	0.91	saturated zone	
	Restricted	0.78	Too acid	0.91
	permeability			
	Too steep for	0.08		
	surface	ļ		
	application		 	
Haugen	 Very limited		 Very limited	
	Depth to	0.99	Seepage	1.00
	saturated zone		Depth to	0.99
	Too acid	0.91	saturated zone	
	Restricted	0.78	Too acid	0.91
	permeability			
	Too steep for	0.08		
	surface	ļ		
	application		 	
Rosholt, very stony	 Very limited	İ	 Very limited	İ
	Filtering	1.00	Seepage	1.00
	capacity	!	Too acid	0.31
	Droughty	0.40		
	Too acid	0.31	1	
	Too steep for	0.08	1	
	surface		 	
	application		 	
Rosholt	 Very limited	İ	 Very limited	i
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	0.31
	Droughty	0.33		ļ
	Too acid	0.31		
	Too steep for	0.08		
	surface			
	application	1	l .	1

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o	f
	·			1
	Rating class and limiting features	Value	Rating class and limiting features	Value
28C:	 		 	
Haugen, very stony	 Very limited	İ	 Very limited	i
	Too steep for	1.00	Seepage	1.00
	surface		Depth to	0.99
	application		saturated zone	
	Depth to saturated zone	0.99	Too acid Too steep for	0.91
	Too acid	0.91	surface	0.50
	Restricted	0.78	application	
	permeability	İ		i
	Too steep for	0.22		İ
	sprinkler			
	application		 	
Haugen	Very limited		Very limited	İ
	Too steep for	1.00	Seepage	1.00
	surface		Depth to saturated zone	0.99
	application Depth to	0.99	Too acid	0.91
	saturated zone		Too steep for	0.50
	Too acid	0.91	surface	
	Restricted	0.78	application	
	permeability			
	Too steep for	0.22		
	sprinkler application			
Rosholt, very stony	 Very limited	 	 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	0.50
	Too steep for	1.00	surface	
	surface application	 	application Too acid	0.31
	Droughty	0.40	100 acid	
	Too acid	0.31		i
	Too steep for	0.22	İ	į
	sprinkler			
	application			
Rosholt	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity	1.00	Too steep for surface	0.50
	Too steep for surface	1	application	
	application	İ	Too acid	0.31
	Droughty	0.33	İ	į
	Too acid	0.31		
	Too steep for	0.22		
	sprinkler application			
38A:	 		 	
Rosholt	 Very limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	0.31
	Droughty Too acid	0.33	 	
	100 acid	0.31	[
	I	1	I .	1

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater		Overland flow o	f
	by irrigation		 Dating along and	177-7
	Rating class and limiting features	Value 	Rating class and limiting features	Value
	İ			İ
38B:	 		 	
Rosholt	Filtering	1.00	Very limited Seepage	1.00
	capacity		Too acid	0.31
	Droughty	0.33	İ	İ
	Too acid	0.31		
	Too steep for surface	0.08	 	
	application		 	
38C:				
Rosholt	 Very limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	0.50
	Too steep for	1.00	surface	
	surface application		application Too acid	0.31
	Droughty	0.33	100 acid	0.31
	Too acid	0.31		i
	Too steep for	0.22	İ	İ
	sprinkler		[1
	application		 	
38D:				İ
Rosholt	Very limited		Very limited	
	Filtering	1.00	Seepage Too steep for	1.00
	capacity Too steep for	1.00	surface	1
	surface		application	i
	application	İ	Too acid	0.31
	Too steep for	1.00		!
	sprinkler			
	application Droughty	0.33	 	
	Too acid	0.31	 	
				į
42D: Amery	 Very limited		 Very limited	
	Too steep for	1.00	Seepage	1.00
	surface	j	Too steep for	1.00
	application		surface	
	Too steep for	1.00	application	
	sprinkler application	 	Too acid	0.77
	Too acid	0.77	 	
	Restricted	0.31		i
	permeability	į	 -	į
43B:	 		 	
Antigo	Very limited	İ	 Very limited	İ
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	0.31
	Too acid Too steep for	0.31	 	
	surface		 	
	application	İ		İ
	İ	İ	İ	İ

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow of wastewater	
	!			l 7
	Rating class and limiting features	Value	Rating class and limiting features	Value
				
43C:	į	į		İ
Antigo	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	0.94
	Too steep for surface	1.00	surface application	
	application		Too acid	0.31
	Too steep for	0.60		
	sprinkler			i
	application	İ		İ
	Too acid	0.31		İ
63A: Crystal Lake	 Vorus limited		 Very limited	
Crystal Hake	Depth to	0.99	Seepage	1.00
	saturated zone		Depth to	0.99
	Too acid	0.31	saturated zone	
	Restricted	0.31	Too acid	0.31
	permeability			[
627				
63B: Crystal Lake	 Very limited	 	 Very limited	
Clystal Dake	Depth to	0.99	Seepage	1.00
	saturated zone		Depth to	0.99
	Too acid	0.31	saturated zone	i
	Restricted	0.31	Too acid	0.31
	permeability			
	Too steep for	0.08		
	surface			
	application	 	 	
63C:	 			
Crystal Lake	Very limited		Very limited	İ
	Too steep for	1.00	Seepage	1.00
	surface		Depth to	0.99
	application		saturated zone	
	Depth to saturated zone	0.99	Too steep for surface	0.50
	Too acid	0.31	application	
	Restricted	0.31	Too acid	0.31
	permeability			
	Too steep for	0.22		į
	sprinkler			İ
	application			
64A:	 		 	
Totagatic	 Verv limited		 Very limited	
.	Filtering	1.00	Flooding	1.00
	capacity	İ	Seepage	1.00
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	[
	Flooding	1.00	Ponding	1.00
	Ponding	1.00	Too acid	0.77
	Too acid	0.77	1	1

Table 21b.--Agricultural Waste Management--Continued

by irrigation ng class and ting features limited tering pacity th to	 	Rating class and limiting features	Value
ting features limited tering pacity	 		
tering pacity			1
tering pacity	 1 00		1
tering pacity	1 00	Very limited	
pacity	1.00	Flooding	1.00
th to		Seepage	1.00
	1.00	Depth to	1.00
turated zone		saturated zone	
oding	1.00		
ughty	0.52		
]	
limited	į	Very limited	İ
steep for	1.00	Seepage	1.00
rface		Too steep for	0.78
plication		surface	
acid	0.77	application Too acid	
steep for rinkler	0.40 	Too acid	0.77
plication	l I		İ
tering	0.01		i
pacity	İ		İ
limited	 	 Very limited	l I
tering	1.00	Seepage	1.00
pacity		Too steep for	0.78
steep for	1.00	surface	
rface	į	application	į
plication		Too acid	0.77
ughty	0.99		
acid	0.77		ļ
-	0.40		
	l I	 	l I
piicucion			
limited	ĺ	Very limited	ĺ
tering	1.00	Seepage	1.00
		-	0.78
-	1.00	!	
	 		0.31
-	0.40	100 actu	0.51
rinkler			i
plication	İ		i
acid	0.31		į
ughty	0.04		
limited	İ	 Very limited	İ
steep for	1.00	Seepage	1.00
rface		Too steep for	1.00
-		surface	
_	1.00		0 77
	I I	roo acid	0.77
-	I	i .	!
	0.77	Į.	1
acid tering	0.77	<u> </u>	
	steep for rinkler plication limited tering pacity steep for rface plication steep for rinkler plication acid ughty limited steep for rface plication rface prince prince prince prince prince prince prince plication steep for rrince plication steep for rrinkler plication	steep for 0.40 rinkler plication limited tering 1.00 race plication steep for 1.04 rinkler plication acid 0.31 ughty 0.04 limited steep for 1.00 race plication ited limited l	steep for 0.40 rinkler plication limited Very limited tering 1.00 Seepage Too steep for steep for 1.00 surface application Too acid steep for 0.40 rinkler plication acid 0.31 ughty 0.04 limited Very limited steep for 1.00 Seepage Too steep for plication surface surface too steep for 1.00 Seepage Too steep for plication surface steep for 1.00 application steep for 1.00 application too acid

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow of wastewater	
	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	
	Ī	İ		İ
69E:	!			[
Sayner	Very limited	1	Very limited	
	Filtering	1.00	Seepage	1.00
	capacity Too steep for	1.00	Too steep for surface	1.00
	surface	1	application	
	application		Too acid	0.77
	Too steep for	1.00		i
	sprinkler	ĺ		İ
	application			
	Droughty	0.99		!
	Too acid	0.77		
Vilas	 Very limited	l I	 Very limited	
VIIAS	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	1.00
	Too steep for	1.00	surface	i
	surface	ĺ	application	İ
	application		Too acid	0.31
	Too steep for	1.00		!
	sprinkler			
	application Too acid	0.31	 	
	Droughty	0.04		
				i
82B:	j	į		į
Cutaway	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	0.99
	Depth to saturated zone	0.99	saturated zone Too acid	0.03
	Too acid	0.03	100 acid	10.03
	Too steep for	0.02		
	surface	i		i
	application	Ì		İ
	!			
Branstad	Very limited		Very limited	
	Depth to saturated zone	0.99	Seepage	1.00
	Too steep for	0.02	Depth to saturated zone	0.33
	surface			i
	application	į		i
82C:		ļ		
Cutaway			Very limited	
	Filtering capacity	1.00	Seepage Depth to	1.00
	Too steep for	1.00	saturated zone	0.55
	surface		Too steep for	0.50
	application	İ	surface	į
	Depth to	0.99	application	
	saturated zone		Too acid	0.03
	Too steep for	0.22		
	sprinkler			
		İ	1	1
	application Too acid	0.03	 	

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	 Disposal of wastewater		Overland flow o	f
	by irrigation			
	Rating class and	Value	Rating class and	Value
	limiting features	i	limiting features	į .
82C:		!		!
Branstad	Very limited	:	Very limited	
	Too steep for surface	1.00	Seepage	1.00
	application		Depth to saturated zone	0.99
	Depth to	0.99	Too steep for	0.50
	saturated zone		surface	
	Too steep for	0.22	application	i
	sprinkler	İ		ĺ
	application			
83A:	 			
Smestad	Very limited Filtering	:	Very limited	1 00
	capacity	1.00	Seepage Depth to	1.00 1.00
	Restricted	1.00	saturated zone	
	permeability	i	Too acid	0.14
	Depth to	1.00		į
	saturated zone			
	Too acid	0.14		!
050				
85B: Taylor	 Very limited		 Very limited	1
laylol	Restricted	1.00	Seepage	1.00
	permeability		Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone	į	Too acid	0.14
	Too acid	0.14		
	Too steep for	0.08		
	surface			
	application		 	
85C:	 		 	
Taylor	 Very limited	i	 Very limited	i
-	Restricted	1.00	Seepage	1.00
	permeability	ĺ	Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Too steep for	0.50
	Too steep for	1.00	surface	
	surface application		application Too acid	0.14
	Too steep for	0.22	100 acid	0.14
	sprinkler		 	i
	application	i		i
	Too acid	0.14		į
86A:				
Indus	Very limited		Very limited	
	Restricted permeability	1.00	Depth to saturated zone	1.00
	Depth to	1.00	Too level	1.00
	saturated zone		Ponding	1.00
	Ponding	1.00	Seepage	0.69
	Too acid	0.07	Too acid	0.07

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow of wastewater	
	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	
86A: Alango	 Very limited		 Very limited	
Alango	Restricted	1.00	Depth to	1.00
	permeability	i	saturated zone	
	Depth to	1.00	Seepage	0.69
	saturated zone		Too acid	0.07
	Too acid	0.07		
89A:		1	 	
Wildwood	 Very limited	i i	 Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone	į	saturated zone	j
	Restricted	1.00	Seepage	1.00
	permeability		Ponding	1.00
	Ponding	1.00	Too acid	0.42
	Too acid	0.42		
	Droughty	0.01	 	
96B:			 	
Karlsborg	Very limited	į	Very limited	į
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone	11 00	Too acid	0.77
	Restricted permeability	1.00	 	
	Too acid	0.77	 	
	Too steep for	0.08		i
	surface	İ		i
	application	İ	İ	İ
0.57				
96C: Karlsborg	 Very limited	1	 Very limited	
Railbbolg	Filtering	1.00	Seepage	1.00
	capacity		Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone	İ	Too acid	0.77
	Restricted	1.00	Too steep for	0.50
	permeability		surface	
	Too steep for	1.00	application	
	surface application		 -	
	Too acid	0.77	 	
96D:				
Karlsborg			Very limited	
	Filtering	1.00	Seepage	1.00
	capacity	1.00	Depth to saturated zone	1.00
	Depth to saturated zone	1	Too steep for	1.00
	Too steep for	1.00	surface	
	surface		application	i
	application	İ	Too acid	0.77
	Restricted	1.00		
	permeability			
	Too steep for	1.00		
	_		i .	
	sprinkler application			

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow of wastewater	
	:		Doting along and	170]
	Rating class and limiting features	Value	Rating class and limiting features	Value
		<u> </u>		<u> </u>
100B:		i		i
Menahga	Very limited	į	Very limited	į
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	0.99
	Too acid	0.99		
	Droughty	0.77		
		ļ		!
100C:	 		 	-
Menahga	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity Too steep for	1.00	Too acid Too steep for	0.99
	surface	1	surface	10.30
	application	i	application	i
	Too acid	0.99		i
	Droughty	0.40	 	i
	Too steep for	0.22	<u> </u>	i
	sprinkler	İ	İ	İ
	application	ĺ		İ
100D:				
Menahga	Very limited	1	Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	1.00
	Too steep for	1.00	surface	-
	surface		application Too acid	
	application Too steep for	1.00	100 acid	0.99
	sprinkler	1	 	
	application	i	 	1
	Too acid	0.99	 	i
	Droughty	0.40		i
		1		i
120B:	į	į	İ	İ
Kost	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	0.07
	Droughty	0.64		!
	Too acid	0.07		
1055				-
127D: Amery	 Vorus limited		 Very limited	-
Amery	i	1.00		1 00
	Too steep for surface		Too steep for	1.00
	application	i	surface	
	Too steep for	1.00	application	i
	sprinkler	İ	Too acid	0.77
	application	İ		İ
	Too acid	0.77		
	Restricted	0.31		
	permeability			
				1

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow of wastewater	
	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	
127D:				
Rosholt	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	1.00
	Too steep for	1.00	surface	
	surface		application Too acid	0.31
	application Too steep for	1.00	100 acid	10.31
	sprinkler	1	 	
	application	i	 	
	Droughty	0.40		i
	Too acid	0.31		İ
	İ	į		İ
127E:				
Amery	Very limited		Very limited	
	Too steep for	1.00	Seepage	1.00
	surface		Too steep for	1.00
	application	1 00	surface	
	Too steep for sprinkler	1.00	application Too acid	0.77
	application	1	100 acid	0.77
	Too acid	0.77	 	
	Restricted	0.31		
	permeability			
Rosholt	Very limited	1 00	Very limited	1 00
	Filtering capacity	1.00	Seepage	1.00
	Too steep for	1.00	Too steep for surface	1
	surface	1	application	
	application	i	Too acid	0.31
	Too steep for	1.00		
	sprinkler	i		İ
	application	į	İ	į
	Droughty	0.40		
	Too acid	0.31		
1513				
151A: Bluffton	 Very limited	1	 Very limited	
BIUITCON	Depth to	1.00	Seepage	1.00
	saturated zone		Depth to	1.00
	Ponding	1.00	saturated zone	
			Ponding	1.00
		Ì		İ
152A:		ļ		
Alstad	Very limited		Very limited	
	Depth to	1.00	Seepage	1.00
	saturated zone	0.07	Depth to	1.00
	Too acid	10.07	saturated zone Too acid	0.07
	 		100 actu	0.07
	I	1	I	1

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater		Overland flow o	of
	by irrigation			
	Rating class and limiting features	Value	Rating class and limiting features	Value
154E:	 		 	
Cushing	 Very limited	i	 Very limited	i
	Too steep for	1.00	Seepage	1.00
	surface		Too steep for	1.00
	application	1 00	surface	1
	Too steep for sprinkler	1.00	application Too acid	0.07
	application		100 aciu	0.07
	Restricted	0.31		i
	permeability	j		į
	Too acid	0.07	 	
156B:	 			
Magnor, very stony	: -		Very limited	
	Depth to	1.00	Seepage	1.00
	saturated zone Too acid	10 05	Depth to saturated zone	1.00
	Restricted	0.85 0.60	Too acid	0.85
	permeability			
Magnor	 Very limited		 Very limited	
magnor	Depth to	1.00	_	1.00
	saturated zone		Depth to	1.00
	Too acid	0.85	saturated zone	
	Restricted	0.60	Too acid	0.85
	permeability		 	
157B:	 			i
Freeon, very stony	Very limited		Very limited	
	Depth to	1.00	Seepage	1.00
	saturated zone Too acid	0.77	Depth to saturated zone	1.00
	Restricted	0.60	Too acid	0.77
	permeability			
	Too steep for	0.08		i
	surface			
	application		 	
Freeon	 Very limited	İ	 Very limited	i
	Depth to	1.00	Seepage	1.00
	saturated zone		Depth to	1.00
	Too acid	0.85	saturated zone	0.85
	Restricted permeability	0.60	Too acid	0.85
	Too steep for	0.08		i
	surface	İ		i
	application			İ
157C:	 		 	
Freeon, very stony	 Very limited	İ	 Very limited	i
	Depth to	1.00	Seepage	1.00
	saturated zone	1 00	Depth to	1.00
	Too steep for surface	1.00	saturated zone Too acid	0.77
	application	i	Too steep for	0.50
	Too acid	0.77	surface	
	Restricted	0.60	application	İ
	permeability			
	Too steep for	0.22		
	sprinkler	1		1
	application			

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow of wastewater	
	Rating class and	Value	Rating class and	Value
	limiting features	value	limiting features	value
157C:	 			
	 Very limited	 	 Very limited	
1100011	Depth to	1.00	Seepage	1.00
	saturated zone		Depth to	1.00
	Too steep for	1.00	saturated zone	
	surface	İ	Too acid	0.85
	application		Too steep for	0.50
	Too acid	0.85	surface	
	Restricted	0.60	application	
	permeability			
	Too steep for	0.22		
	sprinkler			
	application		 -	
160A:	 	 	 	
Oesterle	 Very limited	İ	 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity	İ	Depth to	1.00
	Depth to	1.00	saturated zone	İ
	saturated zone		Too acid	0.77
	Too acid	0.77		
	Droughty	0.09		
165B:	 		 	
Elderon	 Very limited	 	 Very limited	
Fidelon	Filtering	1.00	Seepage	1.00
	capacity		Cobble content	0.86
	Droughty	0.99	Too acid	0.03
	Too steep for	0.08		i
	surface	İ		İ
	application			
	Too acid	0.03		
1055				
185B:	 Town limited		 Tom: limited	
Tradelake	Very limited Filtering	1.00	Very limited	1.00
	capacity	1	Seepage Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Too acid	0.42
	Restricted	1.00		i
	permeability	İ	İ	İ
	Too acid	0.42		j
	Too steep for	0.08		
	surface			
	application			
Taulor	 Vorus limited		 Worn limited	
Taylor	Very limited Restricted	1.00	Very limited Seepage	1.00
	permeability	1.00	Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Too acid	0.14
	Too acid	0.14		i
	Too steep for	0.08	İ	į
	surface			
	application			

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater		Overland flow o	£
	by irrigation			
	Rating class and limiting features	Value	Rating class and limiting features	Value
		<u> </u>		1
185C:	j	į		İ
Tradelake	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone	11 00	Too steep for	0.50
	Restricted permeability	1.00	surface application	1
	Too steep for	1.00	Too acid	0.42
	surface	1	100 acia	0.42
	application	i		i
	Too acid	0.42		İ
	į	į		İ
Taylor	Very limited	ĺ	Very limited	
	Restricted	1.00	Seepage	1.00
	permeability		Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Too steep for	0.50
	Too steep for	1.00	surface	
	surface		application	
	application	0.22	Too acid	0.14
	Too steep for sprinkler	0.22	 	I
	application	i	 	İ
	Too acid	0.14		
		i		i
185D:				
Tradelake	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	1.00
	Too steep for	1.00	surface	
	surface		application	
	application Restricted	1.00	Depth to saturated zone	0.99
	permeability	1	Too acid	0.42
	Too steep for	1.00	100 acia	0.42
	sprinkler			1
	application	i		i
	Depth to	0.99		İ
	saturated zone			
Taylor	Very limited		Very limited	
		1.00		1.00
	permeability		Depth to	1.00
	Depth to	1.00		
	saturated zone	1 00	Too steep for surface	1.00
	Too steep for surface	1.00	application	
	application		Too acid	0.14
	Too steep for	1.00		
	sprinkler	1		i
	application	İ		i
	Too acid	0.14		1

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o wastewater	f
	!		<u> </u>	
	Rating class and limiting features	Value	Rating class and limiting features	Value
185E:				
Tradelake	:	:	Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	1.00
	Too steep for	1.00	surface	
	surface		application	
	application		Depth to	0.99
	Too steep for	1.00	saturated zone	
	sprinkler		Too acid	0.42
	application			
	Restricted	1.00		
	permeability			
	Depth to	0.99		
	saturated zone		l	
Taylor	 Very limited		 Very limited	
_	Restricted	1.00	Seepage	1.00
	permeability	i	Depth to	1.00
	Depth to	1.00	saturated zone	i
	saturated zone	i	Too steep for	1.00
	Too steep for	1.00	surface	i
	surface	i	application	i
	application	i	Too acid	0.14
	Too steep for	1.00	İ	i
	sprinkler	i	İ	i
	application	i	İ	i
	Too acid	0.14	İ	İ
1003				
189A:				
Siren	Very limited		Very limited	
	Depth to	1.00	Seepage	1.00
	saturated zone		Depth to	1.00
	Too acid	1.00	saturated zone	
	Restricted	0.60	Too acid	1.00
	permeability		 	
193A:				
Minocqua	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Ponding	1.00
	Ponding	1.00	Too acid	0.07
	Too acid	0.07		į
337A:	 		[[
Plover	 Verv limited		 Very limited	
	Depth to	1.00	! -	1.00
	saturated zone		Depth to	1.00
	Restricted	0.78	saturated zone	
	permeability		Too acid	0.31
		1	1	, , , , , ,
	Too acid	0.31		

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow of wastewater	
	Rating class and	Value	Rating class and	Value
	limiting features	varue	limiting features	value
	1	İ	İ	i i
368B:				
Mahtomedi	:		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	0.42
	Droughty Too acid	1.00	 -	
	Too steep for	0.42	 	
	surface		 	i
	application	į		į
Cress	 Very limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	0.31
	Droughty	0.60		
	Too acid	0.31		!
	Too steep for	0.08		-
	surface		 	
	application		 	1
368C:		i	 	i
Mahtomedi	Very limited	i	 Very limited	i
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	0.50
	Too steep for	1.00	surface	
	surface	ļ	application	
	application		Too acid	0.42
	Droughty	1.00	 	
	Too acid Too steep for	0.42	 	
	sprinkler	0.22	 	1
	application			İ
Cress	 Very limited	 	 Very limited	
Cless	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	0.50
	Too steep for	1.00	surface	i
	surface	ĺ	application	İ
	application		Too acid	0.31
	Droughty	0.60		
	Too acid	0.31		!
	Too steep for	0.22		-
	sprinkler		 	
	application		 	
368D:		i		
Mahtomedi	Very limited	İ	 Very limited	i
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	1.00
	Too steep for	1.00	surface	
	surface	ļ	application	
	application		Too acid	0.42
	Too steep for	1.00	 	
	sprinkler application	I	 	1
	Droughty	1.00	! 	1
	Too acid	0.42		
	A contract of the contract of		t contract the contract to the	

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater		Overland flow o	f
	by irrigation		<u> </u>	1
	Rating class and limiting features	Value	Rating class and limiting features	Value
		i i		
368D:	İ	ĺ	İ	İ
Cress	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity Too steep for	1.00	Too steep for surface	1.00
	surface	1	application	
	application	i	Too acid	0.31
	Too steep for	1.00		
	sprinkler	į	İ	j
	application			
	Droughty	0.60		
	Too acid	0.31		
368E:		l I	 	
Mahtomedi	 Very limited	i	 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity	ĺ	Too steep for	1.00
	Too steep for	1.00	surface	
	surface		application	
	application		Too acid	0.42
	Too steep for	1.00	 -	
	sprinkler application	l I	 	1
	Droughty	1.00	 	
	Too acid	0.42		
	İ	İ	İ	į
Cress	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	1.00
	Too steep for surface	1.00	surface application	
	application	1	Too acid	0.31
	Too steep for	1.00		
	sprinkler	i		i
	application	į	İ	į
	Droughty	0.60		
	Too acid	0.31		
380B:	 		 	
	 Very limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity	į	Too acid	0.31
	Droughty	0.60		
	Too acid	0.31		
	Too steep for	0.08		
	surface			
	application	1	 	1
Rosholt	 Very limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	0.31
	Droughty	0.33	[
	Too acid	0.31		
	Too steep for	0.08		
		1		
	surface application		l	

Table 21b.--Agricultural Waste Management--Continued

by irrigation	
Rating class and Value Rating class	and Value
limiting features limiting fea	
i i i	İ
380C:	
CressVery limited Very limited	
Filtering 1.00 Seepage	1.00
capacity Too steep f Too steep f Too steep for 1.00 surface	or 0.50
surface applicatio	n l
application Too acid	0.31
Droughty 0.60	
Too acid 0.31	į
Too steep for 0.22	j
sprinkler	
application	
Rosholt Very limited Very limited	
Filtering 1.00 Seepage capacity Too steep f	1.00 or 0.50
capacity Too steep f Too steep for 1.00 surface	0.30
surface applicatio	n
application Too acid	0.31
Droughty 0.33	į
Too acid 0.31	j
Too steep for 0.22	
sprinkler	
application	
2000.	l I
380D:	l I
Filtering 1.00 Seepage	1.00
capacity Too steep f	
Too steep for 1.00 surface	
surface application	n
application Too acid	0.31
Too steep for 1.00	
sprinkler	
application	
Droughty 0.60	
Too acid 0.31	
RosholtVery limited Very limited	
Filtering 1.00 Seepage	1.00
capacity Too steep f	
Too steep for 1.00 surface	İ
surface applicatio	n
application Too acid	0.31
Too steep for 1.00	
sprinkler	
application	
Droughty 0.33	
Too acid 0.31	l I
383B:	l I
Mahtomedi Very limited Very limited	
Filtering 1.00 Seepage	1.00
capacity Too acid	0.42
Droughty 1.00	j
Too acid 0.42	İ

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Cverland flow of wastewater	
	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	
		<u> </u>		1
383C:				
Mahtomedi	 Very limited	i	 Very limited	i
	Filtering	1.00	Seepage	1.00
	capacity	i	Too steep for	0.50
	Too steep for	1.00	surface	i
	surface	i	application	i
	application	İ	Too acid	0.42
	Droughty	1.00	İ	İ
	Too acid	0.42	İ	İ
	Too steep for	0.22	İ	İ
	sprinkler	İ	İ	İ
	application	İ		İ
	İ	İ		İ
383D:				
Mahtomedi	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	1.00
	Too steep for	1.00	surface	
	surface		application	
	application		Too acid	0.42
	Too steep for	1.00		
	sprinkler			
	application			
	Droughty	1.00		
	Too acid	0.42		
2009				
392C:				
Rockmarsh	· -	:	Very limited	1.00
	Depth to saturated zone	1.00	Seepage Depth to	1.00
	Cobble content	1.00	saturated zone	1
	Too steep for	1.00	Cobble content	1.00
	surface	1	Too steep for	0.94
	application		surface	10.54
	Too acid	0.91	application	
	Too steep for	0.60	Too acid	0.91
	sprinkler		1	
	application	i		i
		i		i
Dairyland	Very limited	i	 Very limited	i
-	Filtering	1.00	Seepage	1.00
	capacity	İ	Cobble content	1.00
	Too steep for	1.00	Depth to	0.99
	surface		saturated zone	
	application		Too steep for	0.94
	Depth to	0.99	surface	
	saturated zone		application	
	Droughty	0.91		
	Too steep for	0.60		
	sprinkler			
	application			

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow of wastewater	
	·		<u> </u>	1
		Value	Rating class and	Value
	limiting features	<u> </u>	limiting features	1
392C:	 	l I	 	
Makwa	 Very limited		 Very limited	1
nan-wa	Depth to	1.00		1.00
	saturated zone		saturated zone	
	Restricted	1.00	Seepage	1.00
	permeability	i	Stone content	0.84
	Large stones on	1.00	•	0.77
	the surface	i	Cobble content	0.06
	Too steep for	0.92	İ	İ
	surface	İ	İ	İ
	application	ĺ		İ
	Too acid	0.77		
396B:				
Friendship			Very limited	
	Filtering	1.00		1.00
	capacity	ļ	Too acid	0.21
	Droughty	0.90		!
	Too acid	0.21		!
Wurtsmith	 Town limited		 Very limited	
Wul Cami Cii	Filtering		Seepage	1.00
	capacity	1	Too acid	1.00
	Too acid	1.00	!	0.99
	Depth to	0.99		
	saturated zone	i		i
	Droughty	0.87	İ	İ
	į	İ	İ	į
Grayling	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	1.00
	Too acid	1.00		
	Droughty	1.00		!
2053				-
397A: Perchlake	 Town limited		 Very limited	
Perchiake	Filtering	1.00	: -	1.00
	capacity	1	Depth to	1.00
	Depth to	1.00	saturated zone	1
	saturated zone	1	Too acid	0.77
	Too acid	0.77	100 4014	
	Droughty	0.25	 	i
				i
399B:	İ	j	İ	į
Grayling	Very limited		Very limited	
	Filtering	1.00		1.00
	capacity		Too acid	1.00
	Too acid	1.00		
	Droughty	1.00		1

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o wastewater	f
	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	
399C: Grayling	 Very limited	 	 Very limited	
Gruyring	Filtering	1.00	Seepage	1.00
	capacity	į	Too acid	1.00
	Too acid	1.00	Too steep for	0.50
	Too steep for	1.00	surface application	
	surface application		application	
	Droughty	1.00		i
	Too steep for	0.22		į
	sprinkler			
	application		l	
399D:	 		 	
Grayling	Very limited		Very limited	İ
	Filtering	1.00	Seepage	1.00
	capacity Too steep for	1 00	Too steep for	1.00
	surface	1.00	surface application	
	application		Too acid	1.00
	Too steep for	1.00	İ	İ
	sprinkler			!
	application		 -	
	Too acid Droughty	1.00 1.00	 	
406A:	!			
Loxley	Very limited	1 00	Very limited	
	Filtering capacity	1.00	Seepage Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone	į	Too acid	1.00
	Too acid	1.00	Too level	1.00
	Ponding	1.00	Ponding	1.00
407A:	 			
Seelyeville	Very limited		Very limited	İ
	Depth to	1.00	Depth to	1.00
	saturated zone	1.00	saturated zone	1.00
	Too acid	0.31	Seepage Too level	1.00
			Ponding	1.00
	!		Too acid	0.31
Markey	 Very limited		 Very limited	
Markey		1		1 00
	. –	1.00	Depth to	1.00
	Filtering capacity	1.00 	Depth to saturated zone	
	Filtering capacity Depth to	1.00 1.00		1.00
	Filtering capacity Depth to saturated zone	 1.00 	saturated zone	į
	Filtering capacity Depth to	İ	saturated zone Seepage	1.00
410 A:	Filtering capacity Depth to saturated zone	 1.00 	saturated zone Seepage	1.00
410A: Seelyeville	Filtering capacity Depth to saturated zone Ponding Very limited	 1.00 1.00 	saturated zone Seepage Ponding Very limited	 1.00 1.00
	Filtering capacity Depth to saturated zone Ponding Very limited Depth to	 1.00 	saturated zone Seepage Ponding	1.00
	Filtering capacity Depth to saturated zone Ponding Very limited Depth to saturated zone	 1.00 1.00 1.00	saturated zone Seepage Ponding Very limited Depth to saturated zone	 1.00 1.00 1.00
	Filtering capacity Depth to saturated zone Ponding Very limited Depth to	 1.00 1.00 	saturated zone Seepage Ponding	 1.00 1.00
	Filtering capacity Depth to saturated zone Ponding Very limited Depth to saturated zone Ponding	 1.00 1.00 1.00 1.00	saturated zone Seepage Ponding	 1.00 1.00 1.00

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o	f
	Rating class and	Value	Rating class and	Value
	limiting features	varue	limiting features	varue
410A:	 			
Cathro	Very limited Depth to	1.00	Very limited Depth to	1.00
	saturated zone	1	saturated zone	1
	Ponding	1.00	Seepage	1.00
	Too acid	0.07	Too level	1.00
	İ	ĺ	Ponding	1.00
	!	ļ	Too acid	0.07
419A:	 		 	
Seelyeville	 Very limited	i	 Very limited	
•	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Ponding	1.00	Seepage	1.00
	Too acid	0.31	Too level	1.00
			Ponding	1.00
	 		Too acid	0.31
Cathro	 Very limited	i	 Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Ponding	1.00	Seepage	1.00
	Too acid	0.07	Too level	1.00
			Ponding	1.00
	 		Too acid	0.07
Markey	 Very limited	i	 Very limited	i
_	Filtering	1.00	Depth to	1.00
	capacity		saturated zone	
	Depth to	1.00	Seepage	1.00
	saturated zone		Too level	1.00
	Ponding	1.00	Ponding	1.00
421A:		i		
Dora	Very limited	į	Very limited	j
	Depth to	1.00	Seepage	1.00
	saturated zone		Depth to	1.00
	Restricted	1.00	saturated zone Too level	
	permeability Ponding	1.00	Ponding	1.00
	Too acid	0.07	Too acid	0.07
		İ		
Markey	Very limited		Very limited	
	Filtering	1.00	Depth to	1.00
	capacity		saturated zone	
	Depth to	1.00	Seepage Too level	1.00
	saturated zone Ponding	1.00	Ponding	1.00
Seelyeville	Very limited		Very limited	
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Ponding Too acid	1.00	Seepage	1.00
	TOO acid	0.31	Too level	1.00
	I .	1		1
			Too acid	0.31

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o wastewater	f	
	Rating class and	Value	Rating class and	Value	
	limiting features		limiting features		
		i i		i i	
422A:		į		İ	
Seelyeville	Very limited		Very limited		
	Depth to	1.00	Depth to	1.00	
	saturated zone		saturated zone		
	Ponding	1.00	Seepage	1.00	
	Too acid	0.31	Too level	1.00	
			Ponding	1.00	
	 		Too acid	0.31	
Cathra	 Town limited		 Very limited		
Cathro	Depth to	1.00	_	1.00	
	saturated zone	1	saturated zone	1	
	Ponding	1.00	Seepage	1.00	
	Too acid	0.07	Too level	1.00	
			Ponding	1.00	
		i	Too acid	0.07	
		İ		İ	
Rondeau	Very limited		Very limited		
	Depth to	1.00	Depth to	1.00	
	saturated zone		saturated zone		
	Restricted	1.00	Seepage	1.00	
	permeability		Too level	1.00	
	Ponding	1.00	Ponding	1.00	
426B:	 				
	 Very limited		 Very limited		
Enmier	Filtering	1.00	Seepage	1.00	
	capacity	1	Too acid	0.03	
	Droughty	1.00			
	Too steep for	0.08		i	
	surface	i		i	
	application	į		İ	
	Too acid	0.03		į	
Mahtomedi	Very limited		Very limited		
	Filtering	1.00	Seepage	1.00	
	capacity		Too acid	0.42	
	Droughty	1.00			
	Too acid	0.42			
	Too steep for	0.08	1		
	surface		 		
	application	1	 		
Menahga	 Verv limited		 Very limited		
	Filtering	1.00	Seepage	1.00	
	capacity		Too acid	0.99	
	Too acid	0.99		i	
	Droughty	0.39		į	
	Too steep for	0.08			
		1	I	1	
	surface				

Table 21b.--Agricultural Waste Management--Continued

				_
Map symbol	Disposal of		Overland flow o	£
and soil name	wastewater by irrigation		wastewater	
	·		 Dation	177-1
	Rating class and limiting features	Value	Rating class and limiting features	Value
	IIMICING Teacures	<u> </u>	IIMICING Teacures	<u> </u>
426C:	 		 	
Emmert	 Very limited	i	 Very limited	İ
	Filtering	1.00	Seepage	1.00
	capacity	İ	Too steep for	0.50
	Droughty	1.00	surface	
	Too steep for	1.00	application	
	surface		Too acid	0.03
	application			
	Too steep for	0.22		
	sprinkler	!		ļ
	application			
	Too acid	0.03	 -	
Mahtomedi	 Very limited		 Very limited	l I
	Filtering	1.00	Seepage	1.00
	capacity	i	Too steep for	0.50
	Too steep for	1.00	surface	İ
	surface	İ	application	ĺ
	application		Too acid	0.42
	Droughty	1.00		
	Too acid	0.42		
	Too steep for	0.22		
	sprinkler			ļ
	application		 	l I
Menahga	 Very limited		 Very limited	
-	Filtering	1.00	Seepage	1.00
	capacity	į	Too acid	0.99
	Too steep for	1.00	Too steep for	0.50
	surface		surface	
	application		application	
	Too acid	0.99		
	Droughty	0.39		ļ
	Too steep for	0.22		ļ
	sprinkler			
	application		 	
426D:		i		i
Emmert	Very limited	İ	Very limited	İ
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	1.00
	Too steep for	1.00	surface	
	surface	[application	
	application	1	Too acid	0.03
	Droughty	1.00		ļ
	Too steep for	1.00		
	sprinkler	1	 -	
	application Too acid	0 03	 	1
	100 acid	0.03	 	I I

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater		Overland flow o	f
	by irrigation			
	Rating class and limiting features	Value	Rating class and limiting features	Value
426D:	İ	į	İ	İ
Mahtomedi	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	1.00
	Too steep for surface	1.00	surface application	
	application	1	Too acid	0.42
	Too steep for	1.00		
	sprinkler			İ
	application	į	İ	İ
	Droughty	1.00		
	Too acid	0.42		
Menahga	 Very limited		 Very limited	
menanga	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	
	Too steep for	1.00	surface	1.00
	surface	İ	application	
	application		Too acid	0.99
	Too steep for	1.00		
	sprinkler			
	application		 	
	Too acid Droughty	0.99	 	l I
	Dioughty		 	
430A:		į		į
Freya	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	1.00
	Restricted	1.00	saturated zone	
	permeability Depth to	1.00	Too acid	0.03
	saturated zone	1	 	l I
	Too acid	0.03		
	İ	İ	İ	İ
439B:				
Graycalm	Very limited		Very limited	
	Filtering	1.00	Seepage Too acid	1.00
	capacity Too acid	0.99	100 acid	0.99
	Droughty	0.25	 	
				i
Menahga	Very limited	İ	Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	0.99
	Too acid	0.99		
	Droughty	0.39	 	l I
439C:	 		 	
Graycalm	 Very limited	İ	 Very limited	i
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	0.99
	Too steep for	1.00	Too steep for	0.50
	surface		surface	
	application Too acid	0.00	application	
	Too acid Droughty	0.99	 	I
	Too steep for	0.23	 	
	sprinkler			İ
	application	İ		İ
	I.	I	I	1

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o	f
	'	Value	Rating class and	170]
	Rating class and limiting features	value	limiting features	Value
	İ	İ		i
439C:				1
Menahga	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity Too steep for	1.00	Too acid Too steep for	0.99
	surface	1	surface	10.30
	application	i	application	1
	Too acid	0.99		i
	Droughty	0.39		i
	Too steep for	0.22		į
	sprinkler			
	application			1
400-				
439D:				
Graycalm	Very limited Filtering	1.00	Very limited Seepage	1.00
	capacity	1	Too steep for	1.00
	Too steep for	1.00	surface	
	surface		application	i
	application	İ	Too acid	0.99
	Too steep for	1.00		İ
	sprinkler			
	application			
	Too acid	0.99		
	Droughty	0.25		
Menahga	 Very limited		 Very limited	
Menanga	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	1.00
	Too steep for	1.00	surface	
	surface	i	application	i
	application	ĺ	Too acid	0.99
	Too steep for	1.00		
	sprinkler			
	application	!		
	Too acid	0.99		
	Droughty	0.39	İ	
442C:	 		 	
Haugen	 Very limited	i	 Very limited	1
3.	Depth to	0.99	Seepage	1.00
	saturated zone	į	Depth to	0.99
	Too steep for	0.92	saturated zone	
	surface		Too acid	0.91
	application		Too steep for	0.06
	Too acid	0.91	surface	!
	Restricted	0.78	application	
	permeability	10.02	İ	
	Too steep for sprinkler	0.02	 	
	application		 	
		i		i
Greenwood	 Very limited	i	 Very limited	i
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	1.00
	Depth to	1.00	saturated zone	1
	saturated zone		Too acid	1.00
	!			1
	Too acid Ponding	1.00	Ponding	1.00

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o	f
	! 		<u> </u>	1
	Rating class and limiting features	Value	Rating class and limiting features	Value
443D:	 		 	
Amery	 Very limited	i	 Very limited	
-	Too steep for	1.00	Seepage	1.00
	surface	İ	Too steep for	1.00
	application		surface	
	Too steep for	1.00	application	
	sprinkler	ļ	Too acid	0.31
	application			
	Too acid	0.31	İ	
	permeability		 	
Greenwood	 Very limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity	į	Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Too acid	1.00
	Too acid	1.00	Ponding	1.00
	Ponding 	1.00		
459A:		į		į
Loxley	Very limited	11 00	Very limited	1 00
	Filtering capacity	1.00	Seepage Depth to	1.00
	Depth to	1.00	saturated zone	1
	saturated zone		Too acid	1.00
	Too acid	1.00	Too level	1.00
	Ponding	1.00	Ponding	1.00
Daisybay	 Very limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone	11 00	Too acid Too level	1.00
	Too acid	1.00	Ponding	1.00
	permeability	1	ronaing	1.00
	Ponding	1.00		
Dawson	 Very limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Too acid	1.00
	Too acid	1.00	Too level	1.00
	Ponding Low adsorption	1.00 0.01	Ponding 	1.00
461A:	 		 	
Bowstring	 Very limited		 Very limited	
	Filtering	1.00	Flooding	1.00
	capacity		Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Low adsorption	1.00
	Low adsorption	1.00	Seepage	1.00
	Flooding	1.00	Ponding	1.00
	Ponding 	1.00	 	

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o	f
	:		 	1 ** - 7
	Rating class and limiting features	Value	Rating class and limiting features	Value
		1		1
465A:		i		i
Newson	Very limited	į	Very limited	į
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Too acid	1.00
	Too acid	1.00	Ponding	1.00
	Ponding	1.00		-
	Droughty	0.03	 	
Meehan	 Very limited		 Very limited	
ncondi	Filtering	1.00	Seepage	1.00
	capacity		Depth to	1.00
	Depth to	1.00	saturated zone	i
	saturated zone	į	Too acid	0.85
	Droughty	0.97		İ
	Too acid	0.85		
469E:				
Bigisland	Very limited		Very limited	
	Too steep for	1.00	Seepage	1.00
	surface		Too steep for	1.00
	application Too steep for	1.00	surface application	-
	sprinkler	1	Cobble content	0.95
	application	i	Stone content	0.08
	Droughty	1.00	Too acid	0.03
	Cobble content	0.95		
	Large stones on	0.08		i
	the surface	į	İ	į
Milaca	Very limited		Very limited	
	Too steep for	1.00	Seepage	1.00
	surface		Too steep for	1.00
	application		surface	-
	Too steep for	1.00	application	
	sprinkler application		Depth to saturated zone	0.99
	Depth to	0.99	Too acid	0.42
	saturated zone		100 4014	
	Too acid	0.42		i
	İ	i	İ	İ
471B:	İ	į	İ	į
Dairyland	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity	!	Cobble content	1.00
	Depth to	0.99	Depth to	0.99
	saturated zone		saturated zone	1
	Droughty	0.91	 	1
Emmert	 Vorus limited		 Very limited	1
Emuliet C	Filtering	1.00	very limited Seepage	1.00
	capacity	1	Too acid	0.03
	Droughty	1.00		
	Too acid	0.03		i

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow of wastewater	
	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	
471C: Dairyland	 Very limited		 Very limited	
Dailyland	Filtering	1.00	Seepage	1.00
	capacity		Cobble content	1.00
	Too steep for	1.00	Depth to	0.99
	surface		saturated zone	
	application		Too steep for	0.94
	Depth to saturated zone	0.99	surface	
	saturated zone Droughty	0.91	application	
	Too steep for	0.60		
	sprinkler			i
	application	İ		į
Towns and	 			
Emmert	Very limited Filtering	1.00	Very limited Seepage	1.00
	capacity	1	Too steep for	0.94
	Droughty	1.00	surface	
	Too steep for	1.00	application	i
	surface		Too acid	0.03
	application			
	Too steep for	0.60		
	sprinkler		 	
	application Too acid	0.03		
	İ			İ
472A:				!
Rockmarsh	: -		Very limited	
	Depth to saturated zone	1.00	Flooding Seepage	1.00
	Flooding	1.00	Depth to	1.00
	Cobble content	1.00	saturated zone	
	Too acid	0.91	Cobble content	1.00
	Droughty	0.21	Too acid	0.91
Clemens	 Very limited		 Very limited	
CIEMEIIS	Filtering	1.00	Flooding	1.00
	capacity		Seepage	1.00
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Flooding	1.00	Cobble content	0.89
	Too acid	0.42	Too acid	0.42
473A:	 		 	
Dairyland	Very limited	j	Very limited	į
	Filtering	1.00	Seepage	1.00
	capacity		Cobble content	1.00
	Depth to	0.99	Depth to	0.99
	saturated zone Droughty	0.91	saturated zone	
Skog	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	0.86
	Droughty	0.99	saturated zone	0.40
	Depth to	0.86	Flooding	0.40
	saturated zone		Too acid	0 03
	saturated zone Too acid	 0.03	Too acid	0.03

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	wastewater by irrigation		Overland flow of wastewater	
	Rating class and	Value	Rating class and	Value
	limiting features	Value	limiting features	
	ļ			!
484A: Greenwood	 Very limited		 Very limited	
GI GEIIWOOG	Filtering	1.00	:	1.00
	capacity		Depth to	1.00
	Depth to	1.00	saturated zone	i
	saturated zone	į	Too acid	1.00
	Too acid	1.00	Ponding	1.00
	Ponding	1.00		
Beseman	 Very limited		 Very limited	
Debeman	Depth to	1.00	Seepage	1.00
	saturated zone		Depth to	1.00
	Too acid	1.00	saturated zone	i
	Ponding	1.00	Too acid	1.00
	Restricted	0.31	Too level	1.00
	permeability	ļ	Ponding	1.00
485C:			 	
	 Very limited		 Very limited	
Lapton	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Too steep for	1.00	Seepage	1.00
	surface	ĺ	Too steep for	0.22
	application		surface	
	Too steep for	0.10	application	
	sprinkler	ļ		
	application		 -	
Tawas	 Very limited	l	 Very limited	
	Filtering	1.00	Depth to	1.00
	capacity	į	saturated zone	İ
	Depth to	1.00	Seepage	1.00
	saturated zone		Ponding	1.00
	Too steep for	1.00	Too steep for	0.22
	surface	ļ	surface	
	application		application	
	Ponding Too steep for	1.00	l I	
	sprinkler	10.10	 	1
	application	i	 	
		į	İ	j
495B:	!	ļ	!	
Karlsborg			Very limited	
	Filtering	1.00		1.00
	capacity	1 00	Depth to saturated zone	1.00
	Depth to saturated zone	1.00	Too acid	0.77
	Restricted	1.00		
	permeability		İ	i
	Too acid	0.77	İ	İ
	Too steep for	0.08	İ	Ì
	surface			
	application		[

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o	f
	Rating class and	Value	Rating class and	Value
	limiting features	value	limiting features	value
495B: Grettum	 Very limited		 Very limited	
or codum	Filtering	1.00	Seepage	1.00
	capacity	İ	Too acid	0.85
	Too acid	0.85		
	Too steep for	0.08		
	surface		1	
	application Droughty	0.02	 	
Perida	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity	1 00	Too acid	0.85
	Restricted permeability	1.00	Depth to saturated zone	0.09
	Too acid	0.85		
	Depth to	0.09		į
	saturated zone			
	Too steep for	0.08		
	surface		 	
	application	 		1
495C:				
Karlsborg	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	1.00
	Depth to saturated zone	1.00	saturated zone Too acid	0.77
	Restricted	1.00	Too steep for	0.50
	permeability	İ	surface	İ
	Too steep for	1.00	application	
	surface			
	application Too acid	 0.77	 	
	100 acid	0.77		
Grettum	 Very limited	İ	 Very limited	İ
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	0.85
	Too steep for surface	1.00	Too steep for surface	0.50
	application		application	
	Too acid	0.85		i
	Too steep for	0.22		j
	sprinkler			
	application		l	
	Droughty	0.02	 	1
Perida	 Very limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	0.85
	Restricted	1.00	Too steep for	0.50
	permeability Too steep for	 1.00	surface application	
	surface		Depth to	0.09
	application		saturated zone	
	Too acid	0.85		
	Too steep for	0.22		
		1	I	1
	sprinkler application		 	I

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater		Overland flow o	f
	by irrigation		<u> </u>	
	Rating class and	Value		Value
	limiting features	<u> </u>	limiting features	<u> </u>
495D:	 		 	
Karlsborg	 Verv limited	i	 Very limited	i
3	Filtering	1.00	Seepage	1.00
	capacity	İ	Depth to	1.00
	Depth to	1.00	saturated zone	ĺ
	saturated zone		Too steep for	1.00
	Too steep for	1.00	surface	
	surface		application	
	application		Too acid	0.77
	Restricted	1.00		!
	permeability			!
	Too steep for	1.00	1	
	sprinkler		l I	
	application		 	1
Grettum	 Verv limited		 Very limited	
or cocum	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	1.00
	Too steep for	1.00	surface	1
	surface	i	application	i
	application	İ	Too acid	0.85
	Too steep for	1.00		ĺ
	sprinkler			
	application			
	Too acid	0.85		
	Droughty	0.02		ļ
Dani da				
Perida	Very limited Filtering	1.00	Very limited Seepage	1.00
	capacity	1	Too steep for	1.00
	Restricted	1.00	surface	1
	permeability		application	i
	Too steep for	1.00	Too acid	0.85
	surface	i	Depth to	0.09
	application	İ	saturated zone	İ
	Too steep for	1.00		
	sprinkler			
	application			
	Too acid	0.85		
1000				
496B:			 Very limited	
Karlsborg	Filtering	1.00	Seepage	1.00
	capacity	1	Depth to	1.00
	Depth to	1.00	saturated zone	1
	saturated zone		Too acid	0.77
	Restricted	1.00		
	permeability	ĺ		i
	Too acid	0.77		İ
	Too steep for	0.08		
	surface			
	application			

Table 21b.--Agricultural Waste Management--Continued

Map symbol	Disposal of		Overland flow o	
and soil name	wastewater by irrigation		wastewater 	
	Rating class and	Value	Rating class and	Value
	IIMICING Teacures	<u> </u>	IIMICING TEACUTES	1
496C:		İ		
Karlsborg	-		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	1.00
	Depth to saturated zone	1.00	saturated zone Too acid	0.77
	Restricted	1.00	Too steep for	0.77
	permeability		surface	
	Too steep for	1.00	application	İ
	surface	į		İ
	application	ĺ		İ
	Too acid	0.77		
		ļ		
496D:	 		 	
Karlsborg	Very limited Filtering	1 00	Very limited	1 00
	capacity	1.00	Seepage Depth to	1.00
	Depth to	1.00	saturated zone	1
	saturated zone		Too steep for	1.00
	Too steep for	1.00	surface	İ
	surface	ĺ	application	İ
	application		Too acid	0.77
	Restricted	1.00		
	permeability			
	Too steep for	1.00		
	sprinkler application	1	 	
	application	1	 	
497A:		i		
Meenon	Very limited	i	 Very limited	İ
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	1.00
	Restricted	1.00	saturated zone	
	permeability		Too acid	0.31
	Depth to	1.00	 	
	saturated zone Too acid	0.31	 	
	Droughty	0.03	 	
521A:		į		İ
Dody	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Ponding	1.00
	Restricted permeability	1.00	Too acid	0.31
	Ponding	1.00	 	
	Too acid	0.31		
		İ		İ
523A:				
Nokasippi	-		Very limited	
	Filtering	1.00	Depth to	1.00
	capacity		saturated zone	
	Depth to	1.00	Seepage	1.00
	saturated zone Ponding	1.00	Too level	1.00 1.00
	Too acid	0.77	Too acid	0.77
	1	1	1	1

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o wastewater	£	
	Rating class and	Value	Rating class and	Value	
	limiting features	varue	limiting features	varue	
		İ	l	İ	
529B:		ļ	[1	
Perida	-	1	Very limited		
	Filtering	1.00	Seepage Too acid	1.00	
	capacity Restricted	1.00	Depth to	0.77	
	permeability	1	saturated zone	10.09	
	Too acid	0.77	Buttarated Zone	i	
	Depth to	0.09	! 	i	
	saturated zone	İ		i	
		ĺ	İ	İ	
531A:				!	
Stengel	-	1	Very limited		
	Droughty	1.00	Seepage	1.00	
	Filtering	1.00	Depth to	1.00	
	capacity Depth to	1.00	saturated zone Too acid	0.31	
	saturated zone	1	100 acid	10.31	
	Too acid	0.31	 	i	
				i	
542B:		ĺ	İ	İ	
Haugen, very stony	Very limited		Very limited		
	Depth to	0.99	Seepage	1.00	
	saturated zone		Depth to	0.99	
	Too acid Restricted	0.91	saturated zone Too acid	0.91	
	permeability	0.78	100 acid	0.91	
	Too steep for	0.08	 	1	
	surface		 	i	
	application	i		i	
		İ	İ	İ	
Haugen	Very limited		Very limited		
	Depth to	0.99	Seepage	1.00	
	saturated zone		Depth to	0.99	
	Too acid	0.91	saturated zone Too acid	0.91	
	Restricted permeability	0.78	100 acid	0.91	
	Too steep for	0.08	 	1	
	surface		! 	i	
	application	i		i	
542C:		ļ			
Haugen, very stony	-	1	Very limited		
	Too steep for surface	1.00	Seepage	1.00	
	application		Depth to saturated zone	10.33	
	Depth to	0.99	•	0.91	
	saturated zone		Too steep for	0.50	
	Too acid	0.91	surface	i	
	Restricted	0.78	application	İ	
	permeability				
	Too steep for	0.22			
	sprinkler				
	application	1		1	

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o wastewater	f
	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	varue
542C:				
	 Very limited	 	 Very limited	l I
naugen	Too steep for	1.00	Seepage	1.00
	surface		Depth to	0.99
	application	İ	saturated zone	İ
	Depth to	0.99	Too acid	0.91
	saturated zone	İ	Too steep for	0.50
	Too acid	0.91	surface	
	Restricted	0.78	application	
	permeability			
	Too steep for	0.22		ļ
	sprinkler			
	application		 	
544F:	 		 	
Menahga	Very limited	İ	Very limited	İ
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	1.00
	Too steep for	1.00	surface	
	surface		application	
	application		Too acid	0.99
	Too steep for	1.00		ļ
	sprinkler			
	application	0.99	 	
	Too acid	0.40	İ	
	Droughty 	0.40	 	
Mahtomedi	 Very limited	İ	 Very limited	i
	Filtering	1.00	Seepage	1.00
	capacity	į	Too steep for	1.00
	Too steep for	1.00	surface	
	surface		application	
	application		Too acid	0.42
	Too steep for	1.00		
	sprinkler			ļ
	application			ļ
	Droughty	1.00		
	Too acid	0.42	 	l I
553B:	 		 	i
Branstad	Very limited	İ	Very limited	i
	Depth to	0.99	Seepage	1.00
	saturated zone		Depth to	0.99
	[saturated zone	
5526				
553C: Branstad	 Vorus limited		 Very limited	
Branstau	Too steep for	1.00	Seepage	1.00
	surface		Depth to	0.99
	application		saturated zone	
	Depth to	0.99	Too steep for	0.50
	saturated zone	İ	surface	İ
	Too steep for	0.22	application	İ
	sprinkler			
	application			

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o wastewater	f
	·	Value	Rating class and	170]
	Rating class and limiting features	value	limiting features	Value
	ĺ	İ	Ī	İ
553D:		!		!
Branstad	Very limited	1	Very limited	
	Too steep for surface	1.00	Seepage	1.00
	surrace application	1	Too steep for surface	1.00
	Too steep for	1.00	surrace application	
	sprinkler	1.00	Depth to	0.99
	application	1	saturated zone	10.33
	Depth to	0.99	saturated zone	
	saturated zone			
555A:	 		 	
Fordum	 Very limited		 Very limited	
	Filtering	1.00	Flooding	1.00
	capacity		Seepage	1.00
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Flooding	1.00	Ponding	1.00
	Ponding	1.00		
557B:	 		 	
Shawano	 Very limited	i	 Very limited	i
	Filtering	1.00	Seepage	1.00
	capacity	i	Too acid	0.31
	Droughty	0.49	İ	i
	Too acid	0.31		į
557C:	 		 	
Shawano	Very limited	İ	Very limited	İ
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	0.50
	Too steep for	1.00	surface	
	surface		application	
	application		Too acid	0.31
	Droughty	0.49		
	Too acid	0.31		!
	Too steep for	0.22		-
	sprinkler application		 	
		į		į
557D: Shawano	 Very limited	1	 Very limited	
DilawaiiO	Very limited Filtering	1.00	· -	1.00
	capacity		Too steep for	1.00
	Too steep for	1.00		
	surface		application	i
	application	i	Too acid	0.31
	Too steep for	1.00	İ	i
	sprinkler	İ		İ
	application			
	Droughty	0.49		
	Too acid	0.31		

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o wastewater	f
	Rating class and limiting features	Value	Rating class and limiting features	Value
		[ļ
586A: Chelmo	 Verv limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity]	Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone Restricted	1.00	Ponding	1.00
	permeability		 	
	Ponding	1.00		į
600A:				
Haplosaprists	Not rated		Not rated	
Psammaquents	 Not rated 	 	 Not rated 	
615B:				
Cress	Very limited		Very limited	
	Filtering capacity	1.00	Seepage Too acid	1.00
	Droughty	0.60		
	Too acid	0.31		
615C:	 			
Cress	 Very limited	i	 Very limited	İ
	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	0.50
	Too steep for surface	1.00	surface application	
	application	i	Too acid	0.31
	Droughty	0.60	İ	İ
	Too acid	0.31		
	Too steep for sprinkler	0.22	 	
	application			
615D:	 			
Cress	 Very limited	į	 Very limited	İ
	Filtering	1.00	Seepage	1.00
	capacity Too steep for	1.00	Too steep for surface	1.00
	surface		application	
	application	į	Too acid	0.31
	Too steep for	1.00		
	sprinkler		 -	
	application Droughty	0.60	 	
	Too acid	0.31		
620C:	 		 	
	 Very limited		 Very limited	
	Too acid	0.99	Seepage	1.00
	Too steep for	0.92	Depth to bedrock	1
	surface application		Too acid Too steep for	0.99 0.06
	Depth to bedrock	0.46	surface	
	Too steep for	0.02	application	İ
	sprinkler			
	application		i .	1

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o	of	
	Rating class and	Value	Rating class and	Value	
	limiting features	value	limiting features	value	
		Ī			
620C:					
Haustrup	Very limited		Very limited		
	Depth to bedrock Too acid		Seepage Depth to bedrock	1.00	
	Droughty	1.00 0.95	Too acid	1.00	
	Too steep for	0.92	Too steep for	0.06	
	surface		surface		
	application	İ	application	i	
	Too steep for	0.02		İ	
	sprinkler	İ		İ	
	application				
	!				
Rock outcrop	Not rated		Not rated		
C013 -	1		İ		
621A: Bjorkland	 Very limited	I I	 Very limited	1	
סומדעדמוות	Filtering	1.00	Seepage	1.00	
	capacity		Depth to	1.00	
	Depth to	1.00	saturated zone		
	saturated zone	İ	Too acid	1.00	
	Restricted	1.00	Ponding	1.00	
	permeability				
	Too acid	1.00			
	Ponding	1.00			
623A:					
Capitola	Very limited Depth to	1.00	Very limited Seepage	1.00	
	saturated zone	1	Depth to	1.00	
	Ponding	1.00	saturated zone		
	Too acid	0.31	Ponding	1.00	
	Droughty	0.01	Too acid	0.31	
	Filtering	0.01		İ	
	capacity				
624A:		ļ		ļ	
Ossmer	Very limited		Very limited		
	Filtering	1.00	Seepage	1.00	
	capacity Depth to	1.00	Depth to saturated zone	1.00	
	saturated zone	1	Too acid	0.31	
	Too acid	0.31	100 4014		
				İ	
631A:	İ	İ		İ	
Giese	Very limited	ĺ	Very limited	Ì	
	Depth to	1.00	Seepage	1.00	
	saturated zone		Depth to	1.00	
	Restricted	1.00	saturated zone		
	permeability		Too level	1.00	
	Ponding	1.00	Ponding	1.00	
	Too acid	0.96	Too acid	0.96	
	Filtering capacity	0.01	 	1	
	capacity		! 	1	
632A:	İ	İ		i	
Aftad	 Very limited	İ	 Very limited	İ	
	Depth to	0.99	Seepage	1.00	
	saturated zone		Depth to	0.99	
	Too acid	0.31	saturated zone		
		10 20	Too acid	0.31	
	Restricted permeability	0.30	100 acid	10.31	

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o wastewater	f
	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	
632B:	!			ļ
Aftad	Very limited		Very limited	
	Depth to	0.99	Seepage	1.00
	saturated zone Too acid	0.31	Depth to saturated zone	0.99
	Restricted	0.30	Too acid	0.31
	permeability			İ
	Too steep for	0.08	İ	İ
	surface			
	application			ļ
632C:			 	
Aftad	 Very limited	 	 Very limited	l I
111 000	Too steep for	1.00	Seepage	1.00
	surface		Depth to	0.99
	application	j	saturated zone	į
	Depth to	0.99	Too steep for	0.50
	saturated zone		surface	
	Too acid	0.31	application	
	Restricted	0.30	Too acid	0.31
	permeability Too steep for	0.22	 	l I
	sprinkler		 	
	application	İ		i
	j	İ	İ	į
634C:	[
Drylanding	Very limited		Very limited	
	Droughty	1.00	Seepage	1.00
	Depth to bedrock Too steep for	0.92	Depth to bedrock Too steep for	1.00
	surface		surface	
	application	İ	application	i
	Cobble content	0.87	Too acid	0.03
	Large stones on	0.08		
	the surface			ļ
Daambura				
Beartree	Very limited Droughty	1.00	Very limited Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Depth to bedrock	1.00
	Depth to bedrock	1.00	Seepage	1.00
	Ponding	1.00	Ponding	1.00
			Cobble content	0.02
Burk sukusus	37.1		37.1	
Rock outcrop	Not rated	 	Not rated	l I
635C:	 	 	 	
Drylanding	Very limited	İ	 Very limited	İ
	Droughty	1.00		1.00
	Depth to bedrock	1.00	Depth to bedrock	1.00
	Too steep for	0.92	Flooding	0.40
	surface		Too steep for	0.06
	application		surface	
	Cobble content Large stones on	0.87 0.08	application Too acid	0.03
	the surface		100 actu	
	•		•	

Table 21b.--Agricultural Waste Management--Continued

Rating class and limiting features	Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o wastewater	f
limiting features		·		Rating class and	Value
Description Depth to Depth			į		i
Depth to Depth to					
Droughty 1.00 Depth to 1.00 Depth to 1.00 Depth to 1.00 Saturated zone Depth to bedrock 1.00 Seepage 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Ponding 1.00 Plooding 0.40 Plooding		 			
Depth to saturated zone Saturated zone Saturated zone Depth to bedrock 1.00 Seepage 1.00 Ponding Ponding Po	Beartree			_	1 00
Saturated zone Depth to bedrock 1.00 Seepage 1.00 Ponding 1.00 Flooding 1.00 Flooding 1.00 Flooding 1.00 Flooding 1.00 Flooding 1.00 Flooding 1.00 Flooding 1.00 Flooding 1.00 Flooding 1.00 Flooding 1.00 Flooding 1.00 Seepage 1.00 S			!	-	1
Depth to bedrock		: -		!	1.00
Rock outcrop		!	1.00	-	1.00
Rock outcrop Not rated		Ponding	1.00	Ponding	1.00
Sconsin		[Flooding	0.40
Sconsin	Rock outcrop	 Not rated		 Not rated	
Sconsin	C40D				
Depth to 1.00 Seepage 1.00 saturated zone Too acid T		 Verv limited	l I	 Verv limited	
Saturated zone	200112 = 11	: -		_	1.00
Too steep for surface application Surface application Surface application Seepage 1.00		: -	İ		1.00
Surface application		Too acid	0.31	saturated zone	İ
application		· -	0.08	Too acid	0.31
Fremstadt, stony Very limited					
Fremstadt, stony Very limited Too steep for 1.00 Seepage 1.00 surface application Too steep for 1.00 application sprinkler Too acid 0.91 Filtering 0.01 capacity Too steep for 1.00 Seepage 1.00 capacity Too steep for 1.00 Seepage 1.00 Capacity Too steep for 1.00 Seepage 1.00 Capacity Too steep for 1.00 Surface application Capacity Too steep for 1.00 Surface Surface application Capacity Too steep for 1.00 Surface Capacity Too steep for 1.00 Saturated zone Too acid 0.91 Capacity Too acid 0.91 Capacity Too acid 0.91 Capacity Too acid 0.91 Capacity Capacity Capacity Too acid 0.91 Capacity Capaci		application	l I	 	
Too steep for 1.00 Seepage 1.00 surface application surface Too steep for 1.00 surface Too steep for 1.00 application sprinkler Too acid 0.91 Filtering 0.01 capacity Too steep for 1.00 Seepage 1.00 Seepage 1.00 Seepage 1.00 Surface surface application application Depth to 0.99 Seepage 1.00 Surface application Depth to 0.99 Saturated zone Too acid 0.91 Seepage 1.00 Surface application Depth to 0.99 Seepage 1.00 Surface application Depth to 0.99 Seepage 1.00 Surface Surface Surface Surface Surface Surface Too acid 0.91 Seepage 1.00 Surface Surfac	669D:				
Surface Too steep for 1.00	Fremstadt, stony	Very limited		Very limited	İ
application surface Too steep for 1.00 application sprinkler Too acid 0.91 application Too acid 0.91 Filtering 0.01 capacity Very limited Filtering 1.00 Seepage 1.00 Capacity Too steep for 1.00 surface surface application application Depth to 0.99 Seprinkler Too acid 0.91 application Depth to 0.99 saturated zone Too acid 0.91 Seepage 1.00 Seepag			1.00	Seepage	1.00
Too steep for 1.00 application sprinkler Too acid 0.91 application Too acid 0.91 Filtering 0.01 capacity		!		· -	1.00
Sprinkler Too acid 0.91 application Too acid 0.91 Filtering 0.01 capacity		:	1 00	!	
application Too acid 0.91 Filtering 0.01		· -	1.00		 0 91
Too acid 0.91		: -	İ		
Capacity		:	0.91		i
Pomroy		Filtering	0.01		İ
Filtering		capacity			
Filtering	Pomrov	 Very limited	l I	 Very limited	
capacity	romroy	: -	1.00	_	1.00
surface application 0.99					1.00
application Depth to 0.99		Too steep for	1.00	surface	į
Too steep for 1.00 saturated zone sprinkler Too acid 0.91 application Depth to 0.99 Too acid 0.91 Too acid 0.91 Too acid 0.91 Spoonerhill, stony Very limited Depth to 0.99 Spoonerhill, stony Very limited Too acid 0.31		surface		application	
sprinkler Too acid 0.91 application		:		-	0.99
application		· -	1.00	!	
Depth to			l I	100 acid	0.91
saturated zone		:	0.99		1
671B: Spoonerhill, stony Very limited Very limited Depth to 0.99 Seepage 1.00 saturated zone Depth to 0.99 Too acid 0.31 saturated zone Restricted 0.31 Too acid 0.31 permeability Too steep for 0.08 surface application		T			i
Spoonerhill, stony Very limited Very limited 1.00 Depth to 0.99 Seepage 1.00 saturated zone Depth to 0.99 Too acid 0.31 saturated zone 0.31 Restricted 0.31 Too acid 0.31 permeability		Too acid	0.91		İ
Spoonerhill, stony Very limited Very limited 1.00 Depth to 0.99 Seepage 1.00 saturated zone Depth to 0.99 Too acid 0.31 saturated zone 0.31 Restricted 0.31 Too acid 0.31 permeability	671P.	 -	l I	 	
Depth to 0.99 Seepage 1.00 saturated zone Depth to 0.99 Too acid 0.31 saturated zone Restricted 0.31 Too acid 0.31 permeability Too steep for 0.08 surface application		 Very limited		 Very limited	
saturated zone Depth to 0.99 Too acid 0.31 saturated zone Restricted 0.31 Too acid 0.31 permeability Too steep for 0.08 surface application	_ ,		0.99	-	1.00
Restricted 0.31 Too acid 0.31 permeability		saturated zone		Depth to	0.99
permeability		!			
Too steep for 0.08 surface		!	0.31	Too acid	0.31
surface		: -	10.00	 	1
application		· -	0.08	 	
		1	İ	! 	i
i i i			0.04		i
i l l					

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o	f
	!		<u> </u>	1
	Rating class and limiting features	Value	Rating class and limiting features	Value
671B:	 		[]	
Spoonerhill	 Very limited	İ	 Very limited	İ
	Depth to	0.99	Seepage	1.00
	saturated zone		Depth to	0.99
	Too acid	0.31	saturated zone	
	Restricted	0.31	Too acid	0.31
	permeability Too steep for	10.00	 	
	surface	0.08	 	
	application	i	 	
	Droughty	0.04		
706A:				
Winterfield	Very limited		Very limited	
	Filtering	1.00	Flooding	1.00
	capacity		Seepage	1.00
	Depth to	1.00	Depth to	1.00
	saturated zone	1.00	saturated zone	
	Droughty	0.20	 	
	Dioughty		 	
Totagatic	 Very limited	İ	 Very limited	
	Filtering	1.00	Flooding	1.00
	capacity	ĺ	Seepage	1.00
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	
	Flooding	1.00	Ponding	1.00
	Ponding Too acid	1.00	Too acid	0.42
	100 acid	0.42	 	
715A:		İ		i
Mora	Very limited	į	Very limited	j
	Depth to	1.00	Seepage	1.00
	saturated zone		Depth to	1.00
	Too acid	0.42	saturated zone	
	 		Too acid 	0.42
717B: Milaca	 Very limited	į	 Very limited	į
MIIaca	Depth to	0.99	Seepage	1.00
	saturated zone		Depth to	0.99
	Too acid	0.42	saturated zone	
	Too steep for	0.32	Too acid	0.42
	surface application		 	
717C:		ļ		
Milaca	Very limited		Very limited	
	Too steep for	1.00	Seepage Depth to	1.00 0.99
	surface application		saturated zone	
	Depth to	0.99	Too steep for	0.50
	saturated zone	İ	surface	i
	Too acid	0.42	application	İ
	Too steep for	0.22	Too acid	0.42
	sprinkler	1	1	1
	application	!	<u> </u>	!

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater		Overland flow o	f
	by irrigation			1
	Rating class and limiting features	Value	Rating class and limiting features	Value
	İ	İ		İ
720F:		ļ		
Haustrup	Very limited	1	Very limited	1 00
	Depth to bedrock Too steep for	1.00	Seepage Depth to bedrock	1.00
	surface	1	Too steep for	1.00
	application	i	surface	
	Too steep for	1.00	application	i
	sprinkler	į	Too acid	1.00
	application	ĺ		İ
	Too acid	1.00		
	Droughty	0.95		
Lundeen	 Very limited	l	 Very limited	
Danacen	Too steep for	1.00	Seepage	1.00
	surface		Depth to bedrock	
	application	i	Too steep for	1.00
	Too steep for	1.00	surface	İ
	sprinkler		application	
	application		Too acid	0.99
	Too acid	0.99		!
	Depth to bedrock	0.46	 	
Rock outcrop	 Not rated 		 Not rated 	
726B:	 	i		i
Sissabagama	Very limited	į	Very limited	İ
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	0.86
	Depth to	0.86	saturated zone	
	saturated zone		Too acid	0.31
	Restricted	0.78	l I	
	permeability Too acid	0.31	 	
				i
742B:	İ	ĺ		İ
Milaca	Very limited		Very limited	
	Depth to	0.99	Seepage	1.00
	saturated zone Too acid	0.42	Depth to saturated zone	0.99
	Too steep for	0.42	Too acid	0.42
	surface		100 acia	0.12
	application	i		
	[
742C:	 			
Milaca	very limited Too steep for	1 00	Very limited Seepage	1 00
	surface	1.00	Depth to	1.00
	application	i	saturated zone	
	Depth to	0.99	Too steep for	0.50
	saturated zone	İ	surface	i
	Too acid	0.42	application	
	Too steep for	0.22	Too acid	0.42
	sprinkler	ļ		1
	application			
	I	I		I

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater		Overland flow o	of	
	by irrigation		1 =	1	
	Rating class and limiting features	Value	Rating class and limiting features	Value	
E40D		[
742D:					
Milaca	Very limited Too steep for	1.00	Very limited Seepage	1.00	
	surface	1	Too steep for	1.00	
	application		surface		
	Too steep for	1.00	application		
	sprinkler		Depth to	0.99	
	application	i	saturated zone	i	
	Depth to	0.99	Too acid	0.42	
	saturated zone	İ		İ	
	Too acid	0.42			
755A:			 		
Moppet	Very limited	i	Very limited	i	
	Filtering	1.00	Flooding	1.00	
	capacity	İ	Seepage	1.00	
	Too acid	1.00	Too acid	1.00	
	Depth to	0.86	Depth to	0.86	
	saturated zone		saturated zone		
	Flooding	0.60	 		
Fordum	 Very limited		 Very limited		
	Filtering	1.00	Flooding	1.00	
	capacity		Seepage	1.00	
	Depth to	1.00	Depth to	1.00	
	saturated zone		saturated zone		
	Flooding	1.00	Ponding	1.00	
	Ponding	1.00	 		
771A:		İ			
Lenroot	Very limited		Very limited		
	Filtering	1.00	Seepage	1.00	
	capacity		Depth to	0.99	
	Depth to	0.99	saturated zone		
	saturated zone		Too acid	0.42	
	Droughty Too acid	0.89	 		
	Too acid	0.42	 		
812B:		İ			
Mora	Very limited		Very limited		
	Depth to	1.00	Seepage	1.00	
	saturated zone		Depth to	1.00	
	Too acid	0.42	saturated zone Too acid	0.42	
0053					
825A: Meehan	 Very limited		 Very limited		
	Filtering	1.00	: -	1.00	
	capacity	i	Depth to	1.00	
	Depth to	1.00	saturated zone	İ	
	saturated zone	İ	Too acid	0.85	
	Droughty	0.97			
	Too acid	0.85			

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater		Overland flow o	f
	by irrigation			
	Rating class and limiting features	Value	Rating class and limiting features	Value
896A:	İ	İ		į
Wurtsmith	Very limited	1	Very limited	
	Droughty	1.00	Seepage	1.00
	Filtering capacity	1.00	Depth to saturated zone	0.99
	Depth to	0.99	Too acid	0.85
	saturated zone			
	Too acid	0.85		į
0003			1	
980A: Soderbeck	 Very limited	l I	 Very limited	
5040250011	Filtering	1.00	Seepage	1.00
	capacity	İ	Depth to	1.00
	Depth to	1.00	saturated zone	ĺ
	saturated zone		Cobble content	0.99
	Droughty	0.96	Depth to bedrock	0.42
	Cobble content Too acid	0.50	Flooding	0.40
	100 acid 	0.21	 	l
1070C:		İ		
Fremstadt	Very limited		Very limited	
	Too steep for	1.00	Seepage	1.00
	surface		Too steep for	0.78
	application Too steep for	0.40	surface application	
	sprinkler	0.40	Too acid	0.31
	application	İ		
	Too acid	0.31		į
	Filtering	0.01		ĺ
	capacity			ļ
Cress	 Very limited	l I	 Very limited	
Cless	Filtering	1.00	Seepage	1.00
	capacity		Too steep for	0.50
	Too steep for	1.00	surface	į
	surface		application	
	application		Too acid	0.31
	Droughty	0.60		
	Too acid Too steep for	0.31	 	1
	sprinkler	0.22	 	İ
	application	İ		
1000				
1070D: Fremstadt	 		 Warr limited	
riemstadt	Too steep for	1.00	Very limited Seepage	1.00
	surface		Too steep for	1.00
	application	j	surface	
	Too steep for	1.00	application	
	sprinkler		Too acid	0.31
	application			1
	Too acid	0.31	 	
	Filtering	0.01		
	capacity	1	İ	1

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o wastewater)Í	
	Rating class and limiting features	Value	Rating class and limiting features	Value	
1070D:	İ	İ		İ	
Cress	Very limited		Very limited		
	Filtering	1.00	Seepage	1.00	
	capacity Too steep for	1.00	Too steep for surface	1.00	
	surface	1	application		
	application		Too acid	0.31	
	Too steep for	1.00		j	
	sprinkler				
	application				
	Droughty	0.60			
	Too acid	0.31			
1080B:	 	l I	 		
Spoonerhill	 Very limited	İ	 Very limited		
<u>-</u> · · · · · 	Depth to	0.99	Seepage	1.00	
	saturated zone	į	Depth to	0.99	
	Too acid	0.31	saturated zone		
	Restricted	0.31	Too acid	0.31	
	permeability Too steep for	0.08	 		
	surface	0.08	 	I	
	application	İ			
	Droughty	0.04		i	
	İ	Ì		İ	
Spoonerhill, stony			Very limited	!	
	Depth to	0.99	Seepage	1.00	
	saturated zone Too acid	0.31	Depth to saturated zone	0.99	
	Restricted	0.31	Too acid	0.31	
	permeability				
	Too steep for	0.08		i	
	surface				
	application				
	Droughty	0.04	l		
Cress	 Very limited	l I	 Very limited		
C1 CDD	Filtering	1.00	Seepage	1.00	
	capacity	İ	Too acid	0.31	
	Droughty	0.60		İ	
	Too acid	0.31		!	
2002:					
Udorthents, earthen	 	l I	 		
dams	Not rated		Not rated		
	İ	į		i	
2015:	İ	Ì		İ	
Pits	Not rated	ļ	Not rated		
2050:	 		 		
Landfill	 Not rated	1	 Not rated		
		i		i	
3011A:		İ		İ	
Barronett	· -	:	Very limited		
	Depth to	1.00	Seepage	1.00	
	saturated zone	1 00	Depth to saturated zone	1.00	
	Ponding	1.00 0.31	!	1.00	
	Too acid	:		0.31	
	1	0.31	_	1	

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater		Overland flow o	£
	by irrigation			1
	Rating class and limiting features	Value 	Rating class and limiting features	Value
2002#				
3082E: Braham	 Very limited	l I	 Very limited	l I
branam	Filtering	1.00	Seepage	1.00
	capacity	1	Too steep for	1.00
	Too steep for	1.00	surface	
	surface		application	i
	application	İ	Too acid	0.03
	Too steep for	1.00		
	sprinkler			
	application			
	Too acid	0.03		
Charrens a				
Shawano	Very limited Filtering	1.00	Very limited Seepage	1.00
	capacity	1	Too steep for	1.00
	Too steep for	1.00	surface	1
	surface		application	1
	application	İ	Too acid	0.31
	Too steep for	1.00	İ	İ
	sprinkler	ĺ		Ì
	application			
	Droughty	0.49		
	Too acid	0.31		
3114A:	 		 	
	 Very limited	 	 Very limited	
Dapiibob	Ponding	1.00	Ponding	1.00
	Depth to	1.00	Depth to	1.00
	saturated zone		saturated zone	İ
	Too acid	0.31	Seepage	1.00
		ĺ	Too level	1.00
	[Too acid	0.31
3	 		 	
Aquents	Very limited Filtering	1.00	Very limited	1.00
	capacity	1	Seepage Ponding	1.00
	Ponding	1.00	Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Too acid	1.00
	Too acid	1.00	Too level	1.00
	Droughty	0.03	İ	
Aquepts	-		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Ponding	1.00
	Ponding Depth to	1.00 1.00	Depth to saturated zone	1.00
	saturated zone	1	Too level	1.00
	Too acid	0.07	Too acid	0.07
3125A:	İ	İ	İ	İ
Meehan	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Too acid	0.85
	Droughty	0.94	I	1
	Too acid	0.85	i	i

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow of wastewater					
	·		Doting along and	1370 1				
	Rating class and limiting features	Value	Rating class and limiting features	Value				
3126A:			 					
Wurtsmith	 Verv limited		 Very limited					
	Filtering	1.00	Seepage	1.00				
	capacity	i	Too acid	1.00				
	Too acid	1.00	Depth to	0.99				
	Depth to	0.99	saturated zone					
	saturated zone							
	Droughty	0.85	l					
3312B:								
Glendenning, very								
stony	Very limited		Very limited					
	Depth to	1.00	Seepage	1.00				
	saturated zone		Depth to	1.00				
	Too acid	0.31	saturated zone Too acid	0.31				
	permeability		100 acid 					
	<u> </u>							
Glendenning		:	Very limited	1 00				
	Depth to saturated zone	1.00	Seepage Depth to	1.00				
	Too acid	0.31	saturated zone	1				
	Restricted	0.31	Too acid	0.31				
	permeability							
3336A:	 		l I					
Fenander	 Very limited		 Very limited					
	Depth to	1.00	Seepage	1.00				
	saturated zone	İ	Depth to	1.00				
	Ponding	1.00	saturated zone					
	Restricted	0.31	Ponding	1.00				
	permeability		l I					
3403A:								
Loxley	Very limited		Very limited					
	Filtering	1.00	Seepage	1.00				
	capacity		Depth to	1.00				
	Depth to saturated zone	1.00	saturated zone Too acid	1.00				
	Too acid	1.00	Too level	1.00				
	Ponding	1.00	Ponding	1.00				
_								
Beseman			Very limited	1 00				
	Depth to saturated zone	1.00	Seepage Depth to	1.00				
	Too acid	1.00	saturated zone	1				
	Ponding	1.00	Too acid	1.00				
	Restricted	0.31	Too level	1.00				
	permeability	į	Ponding	1.00				
Dawson	 Very limited		 Very limited					
	Filtering	1.00	Seepage	1.00				
	capacity	i	Depth to	1.00				
	Depth to	1.00	saturated zone					
	saturated zone		Too acid	1.00				
	Too acid	1.00	Too level	1.00				
	Ponding	1.00	Ponding	1.00				
	Low adsorption	0.01						

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater		Overland flow o	f
	by irrigation		 	1** - 7
	Rating class and limiting features	Value 	Rating class and limiting features	Value
	ĺ	İ	<u> </u>	İ
3429B:	 		 	
Lara	Very limited Restricted	1.00	Very limited Seepage	1.00
	permeability	1	Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone	İ		i
	Filtering	0.01	İ	İ
	capacity	ļ		1
3429C:	 		 	
	 Very limited		 Very limited	
	Restricted	1.00	Seepage	1.00
	permeability		Depth to	1.00
	Depth to	1.00	saturated zone	1
	saturated zone		Too steep for	0.50
	Too steep for	1.00	surface	-
	surface application	l I	application	
	Too steep for	0.22	 	
	sprinkler		 	i
	application	İ		i
	Filtering	0.01	İ	į
	capacity	ļ		1
3446A:	 		 	
Newson	 Very limited		 Very limited	i
	Filtering	1.00	Seepage	1.00
	capacity	ĺ	Depth to	1.00
	Depth to	1.00	saturated zone	
	saturated zone		Too acid	1.00
	Too acid	1.00	Ponding	1.00
	Ponding	1.00	 	
	Droughty 	0.03	 	
3448B:		İ		İ
Grettum	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	0.85
	Too acid	0.85	 	
	Droughty	0.02	 	
3448C:				
Grettum	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	0.85
	Too steep for	1.00	Too steep for	0.50
	surface application	I I	surface application	
	Too acid	0.85	appircation	
	Too steep for	0.22		i
	sprinkler	İ	İ	i
	application	İ	İ	İ
	Droughty	0.02		

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater by irrigation		Overland flow o wastewater	f
	Rating class and	Value	Rating class and	Value
	limiting features		limiting features	
3510B: Pomroy	 Town limited		 Town limited	
Polit Gy	Filtering	1.00	Very limited Seepage	1.00
	capacity	1	Depth to	0.99
	Depth to	0.99	saturated zone	
	saturated zone		Too acid	0.91
	Too acid	0.91	İ	į
	Too steep for	0.08		j
	surface			
	application			
	Droughty	0.05		
Fremstadt	 Somewhat limited		 Very limited	
	Too acid	0.91	Seepage	1.00
	Too steep for	0.08	Too acid	0.91
	surface			
	application			
	Filtering	0.01		
	capacity		 	
Fremstadt, stony	 Somewhat limited		 Very limited	
	Too acid	0.91	Seepage	1.00
	Too steep for	0.08	Too acid	0.91
	surface	İ		j
	application			
	Filtering	0.01		
	capacity		 	
3510C:			 	
Pomroy	Very limited	į	Very limited	j
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	0.99
	Too steep for	1.00	saturated zone	
	surface		Too acid	0.91
	application		Too steep for	0.78
	Depth to saturated zone	0.99	surface application	1
	Too acid	0.91	application	
	Too steep for	0.40	 	
	sprinkler			
	application	i		İ
Fremstadt		1.00	Very limited Seepage	1.00
	Too steep for surface	1.00	Too acid	0.91
	application		Too steep for	0.78
	Too acid	0.91	surface	
	Too steep for	0.40	application	i
	sprinkler			
	application			
	Filtering	0.01		
	capacity	1		1

Table 21b.--Agricultural Waste Management--Continued

Map symbol and soil name	Disposal of wastewater		Overland flow o	£
	by irrigation		 	1 ** - 7
	Rating class and limiting features	Value	Rating class and limiting features	Value
		Ī]
3510C: Fremstadt, stony	 Vorus limited		 Very limited	
riemscade, scony	Too steep for	1.00	Seepage	1.00
	surface	i	Too acid	0.91
	application	İ	Too steep for	0.78
	Too acid	0.91	surface	
	Too steep for	0.40	application	
	sprinkler application		 -	
	application Filtering	0.01	 	l
	capacity			
0.514.5				
3511A: Bushville	 Very limited		 Very limited	
Dubliville	Filtering	1.00	Seepage	1.00
	capacity	i	Depth to	1.00
	Depth to	1.00	saturated zone	j
	saturated zone		Too acid	0.42
	Too acid	0.42		
	Droughty	0.23	 	
3516A:				
Slimlake	Very limited	İ	Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Depth to	0.86
	Depth to saturated zone	0.86	saturated zone Too acid	0.42
	Too acid	0.42	100 acid	0.42
	Droughty	0.07		
26053				
3625A: Lino	 Very limited		 Very limited	l I
2110	Filtering	1.00	Seepage	1.00
	capacity	i	Depth to	1.00
	Depth to	1.00	saturated zone	j
	saturated zone	[Too acid	0.67
	Too acid	0.67		
	Droughty 	0.33	 	
3626A:		İ		i
Crex	Very limited		Very limited	
	Filtering	1.00	Seepage	1.00
	capacity		Too acid	1.00
	Too acid Depth to	1.00	Depth to saturated zone	0.99
	saturated zone	0.99	Sacuraced Zone	İ
	Droughty	0.01		İ
2.522				
3629B: Perida	 Verv limited		 Very limited	
	Filtering	1.00	Seepage	1.00
	capacity	į	Too acid	0.85
	Restricted	1.00	Depth to	0.09
	permeability		saturated zone	
	Too acid	0.85		
	Depth to	0.09	 	
	saturated zone	1	!	1

Table 21b.--Agricultural Waste Management--Continued

Map symbol	Disposal of		Overland flow o	f				
and soil name	wastewater		wastewater					
	by irrigation							
	Rating class and	Value	Rating class and	Value				
	limiting features	<u> </u>	limiting features	<u> </u>				
3636B:	 		 					
Plainbo	 Very limited		 Very limited					
114111111111111111111111111111111111111	Filtering	1.00	Seepage	1.00				
	capacity		Depth to bedrock	1				
	Droughty	1.00	Too acid	0.91				
	Too acid	0.91	1					
	Depth to bedrock		 					
	Too steep for	0.08	 	i				
	surface		 	i				
	application		 	i				
			 	i				
3636C:				i				
Plainbo	 Very limited	i	 Very limited	i				
	Filtering	1.00	Seepage	1.00				
	capacity	i	Depth to bedrock	1.00				
	Droughty	1.00	Too acid	0.91				
	Too steep for	1.00	Too steep for	0.50				
	surface	i	surface	i				
	application	i	application	i				
	Too acid	0.91		i				
	Depth to bedrock	0.46		į				
M-W:	 		 					
Miscellaneous water	Not rated		Not rated	į				
W:	 		 					
Water	Not rated	i	Not rated	İ				

Soil Properties

Data relating to soil properties are collected during the course of the soil survey. Soil properties are ascertained by field examination of the soils and by laboratory index testing of some benchmark soils. Established standard procedures are followed. During the survey, many shallow borings are made and examined to identify and classify the soils and to delineate them on the soil maps. Samples are taken from some typical profiles and tested in the laboratory to determine particle-size distribution, plasticity, and compaction characteristics.

Estimates of soil properties are based on field examinations, on laboratory tests of samples from the survey area, and on laboratory tests of samples of similar soils in nearby areas. Tests verify field observations, verify properties that cannot be estimated accurately by field observation, and help to characterize key soils.

The estimates of soil properties are shown in tables. They include engineering index properties, physical and chemical properties, and pertinent soil and water features.

Engineering Index Properties

Table 22 gives the engineering classifications and the range of index properties for the layers of each soil in the survey area.

Depth to the upper and lower boundaries of each layer is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly." Textural terms are defined in the Glossary.

Classification of the soils is determined according to the Unified soil classification system (ASTM, 2005) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2004).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group

index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage.

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an ovendry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field

Liquid limit and plasticity index (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination.

The estimates of particle-size distribution, liquid limit, and plasticity index are generally rounded to the nearest 5 percent. Thus, if the ranges of gradation and Atterberg limits extend a marginal amount (1 or 2 percentage points) across classification boundaries, the classification in the marginal zone is generally omitted in the table.

Physical Properties

Table 23 shows estimates of some physical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

Clay as a soil separate consists of mineral soil particles that are less than 0.002 millimeter in diameter. In table 23, the estimated clay content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The amount and kind of clay affect the fertility and physical condition of the soil and the ability of the soil to adsorb cations and to retain moisture. They influence shrinkswell potential, permeability, plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earthmoving operations.

Moist bulk density is the weight of soil (ovendry) per unit volume. Volume is measured when the soil is at field moisture capacity, that is, the moisture content at 1/3-or 1/10-bar (33kPa or 10kPa) moisture tension. Weight is determined after the soil is dried at 105 degrees C. In the table, the estimated moist bulk density of each soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute shrink-swell potential, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and roots. Depending on soil texture, a bulk density of more than 1.4 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

Permeability refers to the ability of a soil to transmit water or air. The term "permeability," as used in soil surveys, indicates saturated hydraulic conductivity (K_{sat}). The estimates in the table indicate the rate of water movement, in inches per hour, when the soil is saturated. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Permeability is considered in the design of soil drainage systems and septic tank absorption fields.

Available water capacity refers to the quantity of water that the soil is capable of storing for use by plants. The capacity for water storage is given in inches of water per inch of soil for each soil layer. The capacity varies, depending on soil properties that affect retention of water. The most important properties are the content of organic matter, soil texture, bulk density, and soil structure. Available water capacity is an important factor in the choice of plants or crops to be grown and in the design and management of irrigation systems. Available water capacity is not an estimate of the quantity of water actually available to plants at any given time.

Linear extensibility refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at $^{1}/_{3}$ - or $^{1}/_{10}$ -bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported in the table as percent change for the whole soil. Volume change is influenced by the amount and type of clay minerals in the soil.

Linear extensibility is used to determine the shrink-swell potential of soils. The shrink-swell potential is low if the soil has a linear extensibility of less than 3 percent; moderate if 3 to 6 percent; high if 6 to 9 percent; and very high if more than 9 percent. If the linear extensibility is more than 3, shrinking and swelling can cause damage to buildings, roads, and other structures and to plant roots. Special design commonly is needed.

Organic matter is the plant and animal residue in the soil at various stages of decomposition. In table 23, the estimated content of organic matter is expressed as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of organic matter in a soil can be maintained by returning crop residue to the soil. Organic matter has a positive effect on available water capacity, water infiltration, soil organism activity, and tilth. It is a source of nitrogen and other nutrients for crops and soil organisms.

Erosion factors are shown in table 23 as the K factor (Kw and Kf) and the T factor. Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of several factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and permeability. Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

Erosion factor Kw indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Erosion factor Kf indicates the erodibility of the fine-earth fraction, or the material less than 2 millimeters in size.

Erosion factor T is an estimate of the maximum average annual rate of soil erosion by wind or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

Wind erodibility groups are made up of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible. The groups are described in the "National Soil Survey Handbook" (USDA, NRCS).

Wind erodibility index is a numerical value indicating the susceptibility of soil to wind erosion, or the tons per acre per year that can be expected to be lost to wind erosion. There is a close correlation between wind erosion and the texture of the surface layer, the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence wind erosion.

Chemical Properties

Table 24 shows estimates of some chemical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

Cation-exchange capacity is the total amount of extractable bases that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. Soils having a low cation-exchange capacity hold fewer cations and may require more frequent applications of fertilizer than soils having a high cation-exchange capacity. The ability to retain cations reduces the hazard of ground-water pollution.

Effective cation-exchange capacity refers to the sum of extractable bases plus aluminum expressed in terms of milliequivalents per 100 grams of soil. It is determined for soils that have pH of less than 5.5.

Soil reaction is a measure of acidity or alkalinity. The pH of each soil horizon is based on many field tests. For many soils, values have been verified by laboratory analyses. Soil reaction is important in selecting crops and other plants, in evaluating soil amendments for fertility and stabilization, and in determining the risk of corrosion.

Calcium carbonate equivalent is the percent of carbonates, by weight, in the fraction of the soil less than 2 millimeters in size. The availability of plant nutrients is influenced by the amount of carbonates in the soil. Incorporating nitrogen fertilizer into calcareous soils helps to prevent nitrite accumulation and ammonium-N volatilization.

Water Features

Soil moisture status is an estimate of the fluctuating water content in a soil. It greatly influences vegetation type and plant growth; physical properties of soils, such as permeability, workability, strength, linear extensibility, and frost action; and chemical interactions and transport. Many other properties, qualities, and interpretations also are affected. Soil moisture status is important in the classification of soils, wetland, and habitat.

Table 25 gives estimates of soil moisture for each component of a map unit at various depths for every month of the year. The depths displayed are representative values that are indicative of conditions that occur most commonly. *Dry* indicates a moisture condition under which most plants (especially crops) cannot extract water for growth. *Moist* indicates a moisture condition under which soil water is most readily available for plant growth. *Wet* indicates a condition under which water will stand in an unlined hole or at least a condition under which the soil is too wet for the growth of most agricultural species. A moisture status of 4.0-6.7 (wet) indicates that most of the time the component is saturated at some depth between 4.0 feet and 6.7 feet during the month designated. In some years the soil may be saturated at a depth of less than 4.0 feet or more than 6.7 feet; however, field observations indicate that the soil will be saturated between these depths in most years. In the summer, the soil may show the effects of drying plus intermittent rains that result in a moist or wet layer over a dry layer that gets moist or wet again.

In table 25, hydrologic soil groups are groups of soils that, when saturated, have the same runoff potential under similar storm and ground cover conditions. The soil properties that affect the runoff potential are those that influence the minimum rate of infiltration in a bare soil after prolonged wetting and when the soil is not frozen. These properties include the depth to a zone in which the soil moisture status is wet, the infiltration rate, permeability after prolonged wetting, and the depth to a very slowly

permeable horizon or horizons. The influences of ground cover and slope are treated independently and are not taken into account in hydrologic soil groups.

In the definitions of the hydrologic soil groups, the infiltration rate is the rate at which water enters the soil at the surface and is controlled by surface conditions. The transmission rate is the rate at which water moves through the soil and is controlled by properties of the soil horizons.

The four hydrologic soil groups are:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist chiefly of very deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have a moderately fine to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a horizon or horizons that impede the downward movement of water or soils that have a moderately fine or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clayey soils that have a high linear extensibility; soils that have a zone, high in the profile, in which the soil moisture status is wet on a permanent basis; soils that have a claypan or clay horizon or horizons at or near the surface; and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas.

Flooding, the temporary covering of the soil surface by flowing water, is caused by overflow from streams or by runoff from adjacent slopes. Shallow water standing or flowing for short periods after rainfall or snowmelt is not considered flooding. Standing water in marshes and swamps or in closed depressions is considered to be ponding.

Table 26 gives estimates of the frequency and duration of flooding for every month of the year. Flooding frequency is the annual probability of a flood event expressed as a class. None indicates no reasonable possibility of flooding (the chance of flooding is nearly 0 percent in any year, or flooding is likely less than once in 500 years). Very rare indicates that flooding is very unlikely but possible under extremely unusual weather conditions (the chance of flooding is less than 1 percent in any year, or flooding is likely less than once in 100 years but more than once in 500 years). Rare indicates that flooding is unlikely but possible under unusual weather conditions (the chance of flooding is 1 to 5 percent in any year, or flooding is likely 1 to 5 times in 100 years). Occasional indicates that flooding occurs infrequently under usual weather conditions (the chance of flooding is 5 to 50 percent in any year, or flooding is likely 5 to 50 times in 100 years). Frequent indicates that flooding is likely to occur often under usual weather conditions (the chance of flooding is more than 50 percent in any year, or flooding is likely more than 50 times in 100 years; but the chance of flooding is less than 50 percent in all months in any year). Very frequent indicates that flooding is likely to occur very often under usual weather conditions (the chance of flooding is more than 50 percent in all months of any year).

Flooding duration is the average duration of inundation per flood occurrence expressed as a class. *Extremely brief* is 0.1 hour to 4.0 hours; *very brief* is 4 to 48 hours; *brief* is 2 to 7 days; *long* is 7 to 30 days; and *very long* is more than 30 days. About two-thirds to three-fourths of all flooding occurs during the stated period.

The information on flooding is based on evidence in the soil profile, namely thin strata of gravel, sand, silt, or clay deposited by floodwater; irregular decrease in organic matter content with increasing depth; and little or no horizon development.

Also considered are local information about the extent and level of flooding and the relation of each soil on the landscape to historic floods. Information on the extent of flooding based on soil data is less specific than that provided by detailed engineering surveys that delineate flood-prone areas at specific flood frequency levels.

Ponding is standing water in a closed depression. Unless a drainage system is installed, the water is removed only by percolation, transpiration, or evaporation.

Table 27 gives estimates of the frequency, duration, and depth of ponding for every month of the year. The depths displayed are representative values that are indicative of conditions that occur most of the time.

Ponding frequency is the number of times ponding occurs over a period of time. *None* indicates no reasonable possibility of ponding (the chance of ponding is nearly 0 percent in any year). *Rare* indicates that ponding is unlikely but possible under unusual weather conditions (the chance of ponding ranges from nearly 0 percent to 5 percent in any year, or ponding is likely 0 to 5 times in 100 years). *Occasional* indicates that ponding is expected infrequently under usual weather conditions (the chance of ponding ranges from 5 to 50 percent in any one year, or ponding is likely 5 to 50 times in 100 years). *Frequent* indicates that ponding is likely to occur under usual weather conditions (the chance of ponding is more than 50 percent in any year, or ponding is likely more than 50 times in 100 years).

Ponding duration is the average length of time of the ponding occurrence. It is expressed as *very brief* (less than 2 days), *brief* (2 to 7 days), *long* (7 to 30 days), and *very long* (more than 30 days).

Soil Features

Table 28 gives estimates of various soil features. The estimates are used in land use planning that involves engineering considerations.

A restrictive layer is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers. Depth to top is the vertical distance from the soil surface to the upper boundary of the restrictive layer.

Subsidence is the settlement of organic soils or of saturated mineral soils of very low density. Subsidence generally results from either desiccation and shrinkage or oxidation of organic material, or both, following drainage. Subsidence takes place gradually, usually over a period of several years. The table shows the expected initial subsidence, which usually is a result of drainage, and total subsidence, which results from a combination of factors.

Potential for frost action is the likelihood of upward or lateral expansion of the soil caused by the formation of segregated ice lenses (frost heave) and the subsequent collapse of the soil and loss of strength on thawing. Frost action occurs when moisture moves into the freezing zone of the soil. Temperature, texture, density, permeability, content of organic matter, and depth to the water table are the most important factors considered in evaluating the potential for frost action. It is assumed that the soil is not insulated by vegetation or snow and is not artificially drained. Silty and highly structured, clayey soils that have a zone of saturation close to the surface in winter are the most susceptible to frost action. Well drained, very gravelly, or very sandy soils are the least susceptible. Frost heave and low soil strength during thawing cause damage to pavements and other rigid structures.

Risk of corrosion pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens uncoated steel or concrete. The rate of corrosion of

uncoated steel is related to such factors as soil moisture, particle-size distribution, acidity, and electrical conductivity of the soil. The rate of corrosion of concrete is based mainly on the sulfate and sodium content, texture, moisture content, and acidity of the soil. Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The steel or concrete in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than the steel or concrete in installations that are entirely within one kind of soil or within one soil layer.

For uncoated steel, the risk of corrosion, expressed as *low, moderate*, or *high*, is based on soil drainage class, total acidity, electrical resistivity near field capacity, and electrical conductivity of the saturation extract.

For concrete, the risk of corrosion also is expressed as *low, moderate,* or *high.* It is based on soil texture, acidity, and amount of sulfates in the saturation extract.

Table 22.--Engineering Index Properties (Absence of an entry indicates that data were not estimated)

Map symbol	 Depth	USDA texture	Classif	ication	.ii	ments	Percentage passing sieve number				 Liquid	
and					>10	3-10					limit	
soil name			Unified	AASHTO		inches	4	10	40	200		index
	In				Pct	Pct		[Pct	
3A:								 				
Totagatic	0-4	Muck	PT	A-8	0	0	100	100				
	4-8	Loamy fine	SM	A-2	0	0	100	100	50-80	20-35	0-23	NP-6
		sand, loamy										
		sand, fine										
		sand, sand										
	8-17	Fine sand,	SM	A-2	0	0	100	100	50-80	5-45	0-23	NP-6
		sand, loamy										
		sand, loamy										
		fine sand					!		!	!		!
	17-28	Fine sand,	SM	A-2, A-3	0	0	100	100	50-80	5-35	0-23	NP-6
		sand, loamy							!			
	 	sand, coarse										
	 	sand, mucky										
	 28-46		 SM	 A-2, A-3	0	 0	100	 100	 50-80	5-35	0-23	 ND 6
	20-40 	sand, loamy	SM	A-2, A-3	0	0	1 100	1 100	50-60	5-35	0-23	NP-6
	 	sand, coarse				 	 	 			1	I I
	 	sand, coarse			1	 		l I	i	i		i i
	 	sand			1	 	i	l I	i	ì		i
	46-70		SM	A-2, A-3	0	0	100	100	50-80	5-45	0-23	NP-6
		sand, loamy			1							
	İ	sand, fine		i	i	İ	i	İ	i	i	i	i
	İ	sand, loamy	İ	j	i	İ	i	į	i	i	İ	į
	İ	fine sand	İ	İ	İ	İ	į	j	İ	İ	İ	į
	70-80	Sand, coarse	SM	A-2, A-3	0	0	100	100	50-80	5-45	0-23	NP-6
		sand, fine										
		sand, loamy										
		sand, loamy										
		fine sand										
Bowstring	 0-38	Muck	 PT	 A-8	0	0	100	 100				
J	38-47	Fine sand,	SM, SP-SM	A-2	0	0	100	100	85-95	10-20		NP
		sand, loamy	İ	i	i	İ	i	İ	i	İ	İ	İ
	İ	sand	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
	47-80	Muck	PT	A-8	0	0	100	100				
Ausable	 0-10	Muck	 PT	 A-8	0	 0	 100	 100	 			
Vapanie	10-60	Sand	SM	A-2-4, A-3	0	0		100 85-100	1	5-15		 NP-4
	10 00									3 13	0 21	

Table 22.--Engineering Index Properties--Continued

Map symbol	 Depth	USDA texture	Class	ification	Frag	ments		rcentag sieve n	_	-	Liquid	 Plag
and	Depth	ODDA CEACGIE		1	>10	3-10	 	pieve ii	uniber		limit	
soil name			Unified	AASHTO		inches	4	10	40	200	_	index
	 In	1	OHITIEG	AADIIIO	Pct	Pct	1 *	1 10	1 40	1 200	Pct	IIIGEX
	1 111		l I		PCL	PCL				1	PCL	1
12A:							 	 	 	l I	1	
Makwa	0-8	Stony muck	PT	A-8	7-25	0-25	80-100	75-100		j		j
	8-16	Very gravelly	SM, ML	A-2, A-4	7-16	0-37	21-67	18-66	16-63	12-52	25-48	2-9
	İ	loam, very	İ	ì	Ì	İ	İ	į	İ	İ	İ	İ
	İ	cobbly silt		Ì	ĺ	İ	Ì	İ	Ì	İ	İ	İ
	İ	loam,		İ	İ	İ	ĺ	İ	ĺ	İ	İ	ĺ
		extremely										
		gravelly sandy										
		loam, very										
		gravelly sandy										
		loam,										
		extremely		ļ								
	!	cobbly silt		ļ	ļ		ļ	!	ļ	!		!
		loam										
	16-43	Stratified	GC, GM, GC-	GM A-1, A-2-4	6-15	13-26	11-44	8-42			17-36	3-17
		extremely		-	-							1
		gravelly										
		coarse sandy		ļ								
		extremely			1		l I		l I	1		1
	1	gravelly sandy	l I	}	-	1	 	 	 	1		I I
		clay loam	I I	ł	i	 	 	 	 	ì		i
	43-65		GC. GM. GC-	GM A-1, A-2-6,	6-15	12-36	13-61	9-60	7-57	3-33	17-40	3-21
	10 00	gravelly sandy	!	A-2-4	0 20					5 55		0
	i	loam,			i		İ	i	İ	ì		i
	i	extremely		i	i	İ	İ	i	İ	ì	i	i
	i	cobbly sandy	İ	i	i	İ	İ	i	İ	i	i	i
	į	clay loam,	į	ì	i	į	İ	i	İ	İ	i	i
	İ	extremely		İ	İ	İ	ĺ	İ	ĺ	İ	İ	İ
		cobbly sandy										
		loam,										
		extremely										
		gravelly sandy										
		clay loam										
	65-80	Stratified silt	CL, CH	A-6, A-7	0	0	100	100	90-100	70-95	29-57	13-36
		loam to silty			-							
		clay		Ţ						1		
	I	1	1	1	1	1	I	1	I	1	1	1

Map symbol and	Depth	USDA texture	 	Clas	sif	icatio	n	Fragi	ments		rcentage sieve n	ng	 Liquid limit		
soil name			 1	Unified		 A.A	SHTO		3-10 inches	4	10	40	200	 	index
	In		<u> </u>					Pct	Pct					Pct	
22A:			 			 			 	 	 	 			
Comstock	0 - 8	Silt loam	CL,	CL-ML,	ML	A-4,	A-6	0	0	98-100	95-100	90-100	85-95	23-41	4-15
j	8-15	Silt loam	CL,	CL-ML		A-4		0	0	98-100	95-100	90-100	85-95	18-33	4-13
j	15-21	Silt loam,	CL			A-6		0	0	98-100	95-100	90-100	85-95	26-40	10-20
		silty clay	 			j I		į į	 	j I	 	j I	j I	j I	į i
	21-34	Silt loam, silty clay loam	CL			A-6		0	0 	98-100 	 95-100 	 90-100 	85-95 	29-42	12-21
	34-44	Stratified silt loam to very fine sand	CL, 	CL-ML		A-4 		0	0 	98-100 	95-100 	85-100 	65-95 	18-32 	4-13
	44-60	Stratified silt loam to very fine sand	CL,	CL-ML		A-4 		0	0	98-100	95-100	85-100 	65-95	18-32	4-13
27A:			 			 			 	 	 	 	 		
Scott Lake	0-10	Sandy loam	sc,	SM		A-2-4	, A-4	0	0-7	80-100	75-100	50-80	25-45	0-26	NP-8
j	10-17	Sandy loam	SC,	SM		A-2-4	, A-4	0	0-7	75-100	75-100	50-80	25-45	0-26	NP-8
j	17-24	Sandy loam	SC,	SM		A-2-4	, A-4	0	0-7	75-100	75-100	50-80	25-40	18-28	3-9
	24-31	Gravelly loamy sand, loamy sand, very gravelly loamy coarse sand	 	SM		A-1-a A-3 	A-2-4,	0 	0-25 	30-100 	25-100 	15-80 	5-30 	0-23 	NP - 6
	31-80	Stratified sand to very gravelly coarse sand		GP-GM, , SP-SM		A-1, 	A-2, A-3	0 	0-9 	30-100 	25-95 	15-65 	0-15 	0-14 	NP

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol and	 Depth	USDA texture	Classif	ication	Frag	ments	Percentage passing _ sieve number				 Liquid limit	
soil name	 	 	Unified	AASHTO		3-10 inches	 4	10	40	200		index
	In				Pct	Pct			İ	İ	Pct	
28B:	 	 	 	 	 	 	 	 				
Haugen, very	İ	Ì	İ	İ	į	İ	į	İ	İ	İ	İ	į
stony	0-4	Sandy loam	SC-SM, SM	A-2-4, A-4	0-5	0-7	85-100	75-98	50-70	20-40	19-32	3-9
·	4-15 	Sandy loam, gravelly sandy loam, fine sandy loam,	SM, SC-SM	A-1, A-2, A-4 	0-5	0-7 	 55-100 	50-90 	35-85	15-65	16-28	1-9
	 15-23	gravelly loam	 SM, SC-SM	 A-1, A-2, A-4	 0-5	 0-7	 55-100	 50-90	 35-75	 15-45	 16-28	 1-9
 		loam, sandy loam, fine sandy loam, gravelly loam	 	 	 	 	 	 				
	23-35		j	 A-1, A-2, A-4 	0-5 	 0-7 	 55-100 	 50-90 	35-75	 15-45 	 16-27 	2-10
	35-49 		 SC, SM 	 A-2, A-4, A-1 	 0-5 	 0-7 	 55-100 	 50-90 	35-75	15-45	 17-28 	 3-10
	49-79 	Gravelly sandy loam, sandy loam, fine sandy loam	SC, SC-SM	A-1, A-2 	0-5 	0-7 	 55-100 	50-90 	35-75	15-45	18-30	4-12
	79-80	Gravelly sandy loam, sandy loam, fine sandy loam	SC, SC-SM, SM	A-1, A-2, A-4 	0-5 	0-7 	55-100 	50-90 	35-75	15-45 	17-27 	3-10

Map symbol and	 Depth	USDA texture	Classif	ication	Fragi	ments 		_	e passi umber	-	Liquid	
and soil name			Unified	AASHTO	1	3-10 inches	 4	10	40	200	limit	ticity index
	l In		01111100	11151110	Pct	Pct	-	1	1	1 200	Pct	l
			 		100	100	 	i i	1	i	100	
28B:					İ	İ	İ	İ	i	İ	i	İ
Haugen	0-7	Sandy loam	SC-SM, SM	A-2-4, A-4	0-5	0-7	85-100	75-98	50-70	20-40	19-32	3-9
	7-15	Sandy loam,	SM, SC-SM	A-1, A-2, A-4	0-5	0-7	55-100	50-90	35-85	15-65	16-28	1-9
		gravelly sandy	İ	İ	ĺ	ĺ	ĺ	ĺ	İ	İ	İ	ĺ
		loam, fine	İ	İ	ĺ	ĺ	ĺ	ĺ	İ	İ	İ	ĺ
		sandy loam,										
		gravelly loam										
	15-23	Gravelly sandy	SM, SC-SM	A-1, A-2, A-4	0-5	0-7	55-100	50-90	35-75	15-45	16-28	1-9
		loam, sandy										
		loam, fine										
		sandy loam,										
		gravelly loam										
	23-35	Gravelly sandy	SC-SM, SM	A-1, A-2, A-4	0-5	0-7	55-100	50-90	35-75	15-45	16-27	2-10
		loam, sandy										
		loam, gravelly										
		fine sandy										
		loam						!	!			!
	35-49	1		A-2, A-4, A-1	0-5	0-7	55-100	50-90	35-75	15-45	17-28	3-10
		gravelly sandy						!	!	!		!
		loam, fine										
		sandy loam										
	49-79	1	SC, SC-SM	A-1, A-2	0-5	0-7	55-100	50-90	35-75	15-45	18-30	4-12
		loam, sandy										
		loam, fine	 			 	 	 				
	70 00	sandy loam Gravelly sandy	laa aa ay ay		0 =		 FF 100			115 45	 17-27	2 10
	79-80	loam, sandy	ac, ac-am, am	A-1, A-2, A-4	0-5	0-7	122-100	50-90 	35-/5	15-45	11-21	3-10
		loam, fine	 	I I	1	l I	I I	I I	1	I		I I
		sandy loam	 		1	l I	I I	l I	1	1		I I
		Sandy Toam	1	1	1	I I	I I		1	1		I

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classi	Classification				rcentag sieve n	Liquid			
and					>10	3-10					limit	
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct				1	Pct	
28B:	 		 		ì			 		Ì		
Rosholt, very	ĺ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	ĺ
stony	0-4	Sandy loam	SM	A-2, A-4	1-5	0-3	80-100	75-100	50-75	25-40	0-21	NP-4
	4-10	Sandy loam,	SC-SM, SM	A-1, A-2, A-	1 0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
		fine sandy										
		loam, gravelly										
		loamy sand										
	10-14		SC-SM, SM	A-1, A-2, A-	1 0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
		fine sandy										
		loam, gravelly										
		loamy sand	!				!	!	!	!	!	ļ
	14-28	1	SC, SM	A-1, A-2, A-	1 0	0-3	55-100	50-100	35-80	20-45	0-26	NP-8
		fine sandy										
		loam, gravelly							!			
		loam	lar an ar	 A-1, A-2, A-						5-25	0-23	
	28-34	Gravelly loamy sand, very	GM, GP-GM,	A-1, A-2, A-	s U	0-25	30-100	23-100	20-80	3-25	0-23	NP-6
	 	gravelly	SM, SP-SM		i i	 		l I		-	I	
	 	coarse sand,	 			 		 			I	
	 	sand	 			 		İ	i		1	
	34-60	Stratified sand	GP. GP-GM.	A-1, A-2, A-	3 0	0-25	30-100	25-95	15-65	0-15	0-14	NP
		to very	SP, SP-SM		1							i
	! 	gravelly		i	i	İ	i	i	i	i		i
	İ	coarse sand	į	į	i	İ	i	i	i	i	i	İ

Table 22.--Engineering Index Properties--Continued

			Classi	fication	Frag	ments	Pe	rcentag		1		
Map symbol	Depth	USDA texture		.			sieve n	Liquid	Plas-			
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In	!	!	-	Pct	Pct	ļ	!	!	Ţ	Pct	ļ
28B:	 		 			 	 	 	 			
Rosholt	0-8	Sandy loam	SM	A-2, A-4	0	0-3	80-100	75-100	50-75	25-40	0-21	NP-4
	8-10	Sandy loam,	SC-SM, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
		fine sandy										
		loam, gravelly										
		loamy sand										
	10-14	1	SC-SM, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
		fine sandy		ļ								
		loam, gravelly		ļ					!			!
		loamy sand										
	14-28		SC, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-80	20-45	0-26	NP-8
		fine sandy		ļ								
	 -	loam, gravelly		l I			 		 			
	 28-34	1	CM CD CM	A-1, A-2, A-3	0	0 25	 20 100	 25-100	120 00	5-25	0-23	IND 6
	20-34	sand, very	SM, SP-SM	A-1, A-2, A-3	0	0-25	30-100	25-100	20-80 	5-25	0-23	NP-0
	 	gravelly	BM, BF-BM	i	1	 	 	 	i i	ì	1	
	! 	coarse sand,		i					İ	i		i
	! 	sand		i	ì	<u> </u>	İ	i	i	i		i
	34-60	Stratified sand	GP, GP-GM,	A-1, A-2, A-3	0	0-25	30-100	25-100	15-65	0-15	0-14	NP
	İ	to very	SP, SP-SM	j	i	į	į	i	į	i	İ	i
	İ	gravelly	į	j	İ	į	į	į	į	Ì	İ	İ
	İ	coarse sand	İ	į	İ	İ	İ	İ	ĺ	İ	İ	İ

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif	ication	Frag	ments		_	e passi umber	_	 Liquid	 Plas-
and			ļ ļ		>10 3-10		İ		limit			
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct					Pct	ļ
28C:	 		 	i		 						
Haugen, very												
stony	0-4	Sandy loam	SC-SM, SM	A-2-4, A-4	0-5	0-7	85-100	75-98	50-70	20-40	19-32	3-9
	4-15 	Sandy loam, gravelly sandy loam, fine sandy loam,	SM, SC-SM 	A-1, A-2, A-4 	0-5	0-7 	55-100 	50-90 	35-85	15-65	16-28	1-9
	 15-23	gravelly loam	 sm, sc-sm	 A-1, A-2, A-4	0-5	0-7	 55-100	 50-90	35-75	15-45	16-28	 1-9
	 	loam, fine sandy loam, gravelly loam	 	 	 	 	 	 			_ limit	
	23-35	Gravelly sandy loam, sandy loam, gravelly fine sandy	j	A-1, A-2, A-4 	0-5	 0-7 	 55-100 	50-90 	35-75	15-45		2-10
	 35-49 	gravelly sandy loam, fine	 SC, SM 	 A-2, A-4, A-1 	 0-5 	 0-7 	 55-100 	 50-90 	 35-75 	 15-45 	 17-28 	 3-10
	 49-79 	sandy loam Gravelly sandy loam, sandy loam, fine sandy loam	 SC, SC-SM 	 A-1, A-2 	 0-5 	 0-7 	 55-100 	 50-90 	35-75	15-45	18-30	 4-12
	79-80 	Gravelly sandy loam, sandy loam, fine sandy loam	 sc, sc-sm, sm 	 A-1, A-2, A-4 	0-5	 0-7 	 55-100 	50-90	35-75	 15-45 	 17-27 	 3-10

Map symbol	Denth	IIGDA texture	Classi	fication	Fragments			_	 Timuid	 Plas-		
and	Depth	ODDA CEACGIE		1	1	3-10		BIEVE I	idiliber			ticity
soil name	Depth USDA texture	.	ticity index									
SOII Halle	<u> </u>	1	Unitied	AASHIO		<u> </u>	*	1 10	40	200	<u> </u>	Index
	In				Pct	Pct					Pct	
28C:	 		 		 	 	 	 				
Haugen	0-7	Sandy loam	SC-SM, SM	A-2-4, A-4	0-5	0-7	85-100	75-98	50-70	20-40	19-32	3-9
•	7-15	Sandy loam,	SM, SC-SM	A-1, A-2, A-4	0-5	0-7	55-100	50-90	35-85	15-65	16-28	1-9
	İ	gravelly sandy	İ	İ	i	i	i	i	i	i	i	i
	İ	loam, fine	İ	İ	i	i	i	i	i	i	i	i
	İ	sandy loam,	İ	İ	İ	į	İ	İ	İ	Ì	İ	İ
	İ	gravelly loam	İ	İ	İ	į	İ	İ	İ	Ì	İ	İ
	15-23	Gravelly sandy	SM, SC-SM	A-1, A-2, A-4	0-5	0-7	55-100	50-90	35-75	15-45	16-28	1-9
	İ	loam, sandy	İ	İ	İ	į	İ	İ	İ	Ì	İ	İ
	İ	loam, fine	İ	İ	İ	į	į	İ	İ	Ì	İ	İ
	ĺ	sandy loam,			İ	İ	İ	İ	İ	İ	İ	İ
	ĺ	gravelly loam			İ	İ	İ	İ	İ	İ	İ	İ
	23-35	Gravelly sandy	SC-SM, SM	A-1, A-2, A-4	0-5	0-7	55-100	50-90	35-75	15-45	16-27	2-10
		loam, sandy										
		loam, gravelly										
		fine sandy										
		loam										
	35-49	Sandy loam,	SC, SM	A-2, A-4, A-1	0-5	0-7	55-100	50-90	35-75	15-45	17-28	3-10
		gravelly sandy										
		loam, fine										
		sandy loam										
	49-79	Gravelly sandy	SC, SC-SM	A-1, A-2	0-5	0-7	55-100	50-90	35-75	15-45	18-30	4-12
		loam, sandy										
		loam, fine										
		sandy loam								[
	79-80	Gravelly sandy	SC, SC-SM, SI	M A-1, A-2, A-4	0-5	0-7	55-100	50-90	35-75	15-45	17-27	3-10

| loam, sandy | loam, fine | sandy loam

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	 Depth	USDA texture	Classi	fication	i	ments		rcentag sieve n	_	-	Liquid	 Plas ticity index
and soil name	 		Unified	AASHTO	>10	3-10	 4	10	40	200	 11m1c	
BOIL HAME	l -	1	Unition	1 11111110			<u> </u>	1 -0	1 10	1 200	1 2-6	IIIGUA
	In		 		Pct	Pct	 	l I		l I	Pct	l I
28C:												
Rosholt, very	İ	İ	İ	j	İ	İ	į	İ	İ	İ	İ	İ
stony	0-4	Sandy loam	SM	A-2, A-4	1-5	0-3	80-100	75-100	50-75	25-40	0-21	NP-4
	4-10	Sandy loam,	SC-SM, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
		fine sandy										
		loam, gravelly										
		loamy sand										
	10-14		SC-SM, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
		fine sandy										
		loam, gravelly						!	!	!		ļ
		loamy sand										
	14-28		SC, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-80	20-45	0-26	NP-8
		fine sandy							!			
	 	loam, gravelly				 				1		
	 28-34	1	and an	 A-1, A-2, A-3		0.05		 25-100	100.00	5-25	0-23	
	28-3 4 	sand, very	SM, SP-SM	A-1, A-2, A-3	0	U-25 	30-100	25-100	20-80	3-23	0-23	NP-6
	 	gravelly	SM, SF-SM		1	l I	l I	 		1	I	
	 	coarse sand,	 			 	 	İ	i	İ	1	
	 	sand	 		İ	 	 	İ	i	i		i
	34-60	Stratified sand	GP, GP-GM,	A-1, A-2, A-3	0	0-25	30-100	25-95	15-65	0-15	0-14	NP
		to very	SP, SP-SM		İ			i	i	i		İ
	İ	gravelly	İ	i	İ	İ	İ	İ	i	i	i	i
	İ	coarse sand	İ	i	i	İ	i	i	i	i	i	İ

Map symbol	Depth	USDA texture	Classi	ficati	on		Fragments			rcentage sieve n	 Liquid	 Plas-		
and							>10	3-10	l				limit	
soil name			Unified	A	ASHTO		inches	inches	4	10	40	200		index
	In						Pct	Pct					Pct	
28C: Rosholt	0 - 8		 SM		3 4			 0-3		 75-100			0 01	
KOSHOIT		Sandy loam	SC-SM, SM	A-2, A-1,		3 4	0 0						1	1
	8-10	fine sandy	SC-SM, SM	A-1,	A-2,	A-4	0	0-3	 22-T00	120-100	35-75	15-40	Pct	NP-6
		loam, gravelly	 	-			 	 	l I	l I	l I			1
		loamy sand	 	1			 	 	 	i i	i i	i		i
	10-14	Sandy loam,	SC-SM, SM	A-1,	A-2.	A-4	0	0-3	 55-100	50-100	35-75	15-40	0-23	NP-6
i		fine sandy		i i						İ	İ		Pet Pot	i
į		loam, gravelly		i			İ	İ	į	į	į	i		İ
į		loamy sand		j			İ	İ	į	į	į	İ		į
	14-28	Sandy loam,	SC, SM	A-1,	A-2,	A-4	0	0-3	55-100	50-100	35-80	20-45	0-26	NP-8
		fine sandy											0-21	
		loam, gravelly												
		loam												
	28-34	Gravelly loamy		A-1,	A-2,	A-3	0	0-25	30-100	25-100	20-80	5-25	0-23	NP-6
		sand, very	SM, SP-SM				 	 						
		gravelly coarse sand,	 				 	 	 	 	l I	I	5 0-23 	
		sand	 				 	 	 	 	 			
	34-60	Stratified sand	GP. GP-GM.	A-1,	A-2.	A-3	0	0-25	30-100	25-100	15-65	0-15	0-14	 NP
		to very	SP, SP-SM	,	,									
i		gravelly		i				İ	İ	İ	İ	i	İ	i
İ		coarse sand		j					ĺ	ĺ	ĺ		Pct	ĺ
38A:														
Rosholt	0-8	Sandy loam	SM	A-2,		3 4	0						1	1
	8-10	Sandy loam, fine sandy	SC-SM, SM	A-1,	A-2,	A-4	0	U-3 	 22-T00	120-100	35-75	15-40	0-23	NP-6
		loam, gravelly	 				 	 	 	 	 			
		loamy sand	 	i				! 	 		İ		limit Pct	i
	10-14		SC-SM, SM	A-1,	A-2,	A-4	0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
į		fine sandy		i			İ	İ	į	į	į	i	limit Pct	İ
j		loam, gravelly		j				ĺ	ĺ	ĺ	ĺ	İ		ĺ
		loamy sand												
	14-28		SC, SM	A-1,	A-2,	A-4	0	0-3	55-100	50-100	35-80	20-45	0-26	NP-8
		fine sandy		!						!			0 0-23	!
		loam, gravelly												
	20 24	loam Gravelly loamy	CM CD CM		7 2	7. 2	 0	0 25		 25-100	120 00		0.22	NTD 6
	28-34	sand, very	SM, SP-SM	A-1,	A-2,	A-3	U	U-25 	 30-100	25-100	20-80 	3-23	0-23	NP-6
		gravelly	BM, BF-BM 	i			 	 	 	l I	l I	İ	 	
		coarse sand,	 	i					İ	İ	İ			i
		sand		i			İ		İ	İ	İ	i	<u> </u>	i
i	34-60	Stratified sand	GP, GP-GM,	A-1,	A-2,	A-3	0	0-25	30-100	25-100	15-65	0-15	0-14	NP
į		to very	SP, SP-SM	İ										
į		gravelly												
		coarse sand												

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classi	fication		İ	ments		rcentago sieve n	_	-	Liquid	
and soil name		 	Unified	AASHT	2	>10	3-10 inches	 4	10	40	200	limit	ticity index
BOII Hame	In			AADIII		Pct	Pct	-	10		200	Pct	
38B:		 	 				 	 	[
Rosholt	0-8 8-10	Sandy loam Sandy loam, fine sandy loam, gravelly loamy sand	SM SC-SM, SM 	A-2, A-4 A-1, A-2	, A-4	0 0	0-3		75-100 50-100 			0-21	
	10-14	Sandy loam, fine sandy loam, gravelly loamy sand	 SC-SM, SM 	A-1, A-2	, A-4	 0 	 0-3 	 55-100 	 50-100 	 35-75 	15-40	0-23	 NP - 6
	14-28		SC, SM 	A-1, A-2	, A-4	0 	0-3 	 55-100 	50-100 	35-80 	20-45	0-26	NP-8
	28-34	Gravelly loamy sand, very gravelly coarse sand, sand	SM, SP-SM, GM, GP-GM	A-1, A-2	, A-3	0 	0-25 	30-100 	 25-100 	20-80 	5-25 	0-23	NP - 6
	34-60	Stratified sand to very gravelly coarse sand	GP, GP-GM, SP, SP-SM 	A-1, A-2	, A-3	0 	0-25 	30-100 	25-100 	 15-65 	0-15	0-14	NP
38C:			 			 		 		 			
Rosholt	0-8 8-10	Sandy loam Sandy loam, fine sandy loam, gravelly	SM SC-SM, SM 	A-2, A-4 A-1, A-2	, A-4	0 0 	1				25-40 15-40 		
	10-14	fine sandy loam, gravelly	 SC-SM, SM 	 A-1, A-2	, A-4	 0 	 0-3 	 55-100 	 50-100 	 35-75 	 15-40 	0-23	 NP-6
	14-28	loamy sand Sandy loam, fine sandy loam, gravelly loam	 SC, SM 	A-1, A-2	, A-4	 0 	 0-3 	 55-100 	 50-100 	 35-80 	20-45	0-26	 NP-8
	28-34	Gravelly loamy sand, very gravelly coarse sand, sand	 GM, GP-GM, SM, SP-SM 	A-1, A-2	, A-3	 0 	0-25	 30-100 	 25-100 	20-80	5-25 	0-23	NP - 6
	34-60	Stratified sand to very gravelly coarse sand	GP, GP-GM, SP, SP-SM 	A-1, A-2	, A-3	0 	0-25	 30-100 	 25-100 	 15-65 	0-15	0-14	NP

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			Classi	fication	Frag	ments	Pe	rcentag	e passi	ng		
Map symbol	Depth	USDA texture			.			sieve n	umber		Liquid	Plas
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In			<u> </u>	Pct	Pct	ļ	!	!	Ţ	Pct	
38D:	 					 	 	 	 			
Rosholt	0-8	Sandy loam	SM	A-2, A-4	0	0-3	80-100	75-100	50-75	25-40	0-21	NP-4
	8-10	Sandy loam,	SC-SM, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
	İ	fine sandy	İ	j	İ	į	į	į	į	Ì	İ	İ
	ĺ	loam, gravelly		j	İ	İ	ĺ	İ	ĺ	İ	İ	ĺ
	ĺ	loamy sand		j	İ	İ	ĺ	İ	ĺ	İ	İ	ĺ
	10-14	Sandy loam,	SC-SM, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
		fine sandy										
		loam, gravelly	-									
		loamy sand										
	14-28	Sandy loam,	SC, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-80	20-45	0-26	NP-8
		fine sandy										
		loam, gravelly										
		loam										
	28-34	1		A-1, A-2, A-3	0	0-25	30-100	25-100	20-80	5-25	0-23	NP-6
		sand, very	SM, SP-SM									
		gravelly		ļ					!			ļ
		coarse sand,		ļ	!			!	!	!	!	ļ
		sand		ļ	!			!	!	!	!	ļ
	34-60	Stratified sand	1	A-1, A-2, A-3	0	0-25	30-100	25-100	15-65	0-15	0-14	NP
		to very	SP, SP-SM								!	
		gravelly									!	
	!	coarse sand										

Table 22.--Engineering Index Properties--Continued

Map symbol	 Depth	USDA texture	Classi	fication	Frag	ments		rcentag sieve r	ge passi number	-		 Plas-
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct					Pct	
42D:	 		 				 		l			
Amery	0-3	Sandy loam	SC-SM, SM	A-2-4, A-4	0-5	0-7	85-100	75-98	50-75	25-40	0-23	NP-6
	3-22	Sandy loam,	SC-SM, SM	A-2-4, A-4	0-5	0-7	55-100	50-90	50-75	25-45	0-23	NP-7
	 	loam, gravelly loam, gravelly sandy loam	1		 	 	 	 	 	 	 	
	22-34	Sandy loam,	SC-SM, SM	A-1-b, A-2-4,	0-5	0-7	55-100	50-90	35-75	15-40	0-23	NP-7
		fine sandy	İ	A-4	İ	İ	İ	İ	İ	Ì	İ	İ
		loam, gravelly										
		sandy loam										
	34-41	Gravelly sandy	SC-SM, SM	A-1-b, A-2-4,	0-5	0-7	55-100	50-90	35-75	15-40	0-23	NP-7
		loam, fine		A-4								
		sandy loam,										
		sandy loam										
	41-57	Gravelly sandy	SC, SM	A-2-4, A-4,	0-5	0-7	55-100	50-90	35-75	20-45	0-28	NP-9
		loam, fine		A-1-b								
		sandy loam,										
		sandy loam										
	57-71	Sandy loam,	SC, SM	A-2-4, A-4,	0-5	0-7	55-100	50-90	35-75	20-45	0-28	NP-9
		fine sandy		A-1-b								
		loam, gravelly										
		sandy loam										
	71-80	Sandy loam,	SC-SM, SM	A-1-b, A-2-4,	0-5	0-7	55-100	50-90	35-75	15-45	0-23	NP-7
		fine sandy		A-4								
		loam, gravelly										
		sandy loam										

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Map symbol	Depth	USDA texture	Classif	ication	1	Fragn	nents		_	e passi: umber	_	 Liquid	 Plas-
and				I	>:	10	3-10	ĺ				limit	
soil name		İ	Unified	AASHTO	ino	ches	inches	4	10	40	200	ĺ	index
	In	ļ	<u> </u>		Po	ct	Pct					Pct	
43B:		 	 					 		 	 		
Antigo	0-9	Silt loam	CL-ML, ML	A-4	į (0	0-7	90-100	85-100	70-100	65-85	0-25	2-7
	9-12	Silt loam	CL-ML, ML	A-4	į (0	0-7	90-100	85-100	70-100	65-85	15-25	2-7
	12-19	Silt loam	CL, CL-ML	A-4	į (0	0-7	90-100	85-100	70-100	65-85	20-30	4-9
	19-28	Silt loam	CL, CL-ML	A-4	į (0	0-7	90-100	85-100	70-100	65-85	20-30	4-9
	28-31			A-1, A-2,	A-4 (0	0-7	50-100	45-100	35-85	15-65	0-30	NP-9
			SM, CL-ML		!	ļ							ļ
		sandy loam,			!	ļ							ļ
		gravelly loam,	•		!	ļ							ļ
		gravelly sandy			- !						!		
		loam, very			!	ļ							ļ
		gravelly fine			!	ļ							ļ
		sandy loam			_	_							
	31-33	1 2 3	SC-SM, ML, SM	A-1, A-2, A	A-4 (0	0-7	50-100	45-100	35-85	15-65	0-30	NP - 9
		sandy loam,	!		!	ļ				!	!	!	
		loam, fine				ļ							
		sandy loam,											
		gravelly loam,	1										
		gravelly sandy											
		loam, sandy											
		loam											
	33-60	Stratified sand	GP, GP-GM,	A-1, A-2, A	A-3 (0	0-7	45-100	40-95	15-65	0-15	0-14	NP
		to very	SP, SP-SM										
		gravelly											
		coarse sand											

Table 22.--Engineering Index Properties--Continued

			Class	ifi	cati	on		Fragi	ments	Pe	rcentag	e passi	ng		
Map symbol	Depth	USDA texture									sieve n	umber			Plas-
and								>10	3-10					limit	ticity
soil name			Unified		A	ASHTO		inches	inches	4	10	40	200		index
	In	[[I				Pct	Pct			!		Pct	[
43C:	 														
Antigo	 0-9		CL-ML, ML	- 1	A-4			 0	0-7	 00_100	85-100	 70_100	 65_05	0-25	2-7
AllCIGO	9-12	Silt loam	CL-ML, ML		A-4			0	0-7		85-100				2-7
		Silt loam	CL, CL-ML		A-4			0 0	0-7					20-30	1
		1	CL, CL-ML		A-4			0	0-7		85-100				4-9
		1	SC-SM, ML,			A-2,	A - 4		0-7		45-100			,	
	20 31	loam, fine	SM, CL-ML		,	,		•	0 ,	30 ±00	13 100	33 03	1	0 30	
	l I	sandy loam,	511, 62 112	i				 	 	l I	i i	l I	i	I I	i
	l I	gravelly loam,	 	i				 	 	l I	i i	l I	i	I I	i
	! 	gravelly sandy	'	i				 	 	 	İ	İ	İ		i
	! 	loam, very		i				 			İ	İ	İ		i
	! 	gravelly fine	İ	i				! 	! 	İ			i		i
	! 	sandy loam	İ	i				! 	! 	İ			i		i
	31-33		SC-SM, ML, S	SM.	A-1,	A-2,	A-4	0	0-7	50-100	45-100	35-85	15-65	0-30	NP-9
	İ	sandy loam,		i	•	•				İ			i		i
	İ	loam, fine		i				İ	i	i	İ	İ	i	İ	i
	İ	sandy loam,	İ	i					i	İ	İ	İ	i	i	i
	İ	gravelly loam,	İ	i					i	İ	İ	İ	i	i	i
	İ	gravelly sandy	'	i					i	İ	İ	İ	i	İ	i
	İ	loam, sandy	İ	i					i	İ	İ	İ	i	İ	i
	İ	loam	İ	i					i	į	i	İ	i	i	i
	33-60	Stratified sand	GP, GP-GM,	j.	A-1,	A-2,	A-3	0	0-7	45-100	40-95	15-65	0-15	0-14	NP
	İ	to very	SP, SP-SM	i				İ	į	į	İ	İ	i	İ	i
	İ	gravelly	İ	i				İ	į	į	İ	İ	į	İ	İ
	j	coarse sand	İ	į				İ	į	į	İ	İ	į	j	į
	ĺ	İ	İ	į				İ	İ	İ	İ	į	İ	İ	İ
63A:				- !											
Crystal Lake		Silt loam	CL, CL-ML, 1					0	0					18-30	
	8-12	· ·	CL, CL-ML, 1					0	0		95-100				3-11
	12-20	1	CL-ML, CL	-	A-4,	A-6		0	0	98-100	95-100	90-100	85-95	25-36	7-16
		silty clay		- !											
		loam		-											
	20-32		CL	-	A-6,	A-4		0	0	98-100	95-100	90-100	85-95	28-40	9-18
		silty clay								ļ			1		
		loam		!											
	32-60	Stratified silt	CL, CL-ML, 1	ML .	A-4			0	0	98-100	95-100	85-100	65-95	20-30	3-10
		loam to very								ļ			1		
		fine sand								ļ			1		

Classification Fragments Percentage passing Map symbol Depth USDA texture sieve number --|Liquid| Plasand >10 3-10 limit | ticity Unified soil name AASHTO inches inches 4 index Pct Pct 63B: Crystal Lake----0-8 |Silt loam CL, CL-ML, ML A-4, A-6 0 0 |98-100|95-100|90-100|85-95 |18-30 | 3-11 8-12 | Silt loam |CL, CL-ML, ML|A-4, A-6 |98-100|95-100|90-100|85-95 |18-30 0 3-11 12-20 | Silt loam, CL-ML, CL A-4, A-6 |98-100|95-100|90-100|85-95 |25-36 silty clay loam 20-32 | Silt loam, A-6, A-4 |98-100|95-100|90-100|85-95 |28-40 | 9-18 CL 0 0 silty clay loam 32-60 | Stratified silt | CL, CL-ML, ML | A-4 |98-100|95-100|85-100|65-95 |20-30 | 3-10 0 loam to very fine sand 63C: Crystal Lake----|Silt loam |CL, CL-ML, ML|A-4, A-6 0 - 8 |98-100|95-100|90-100|85-95 |18-30 3-11 0 0 8-12 | Silt loam CL, CL-ML, ML A-4, A-6 0 0 |98-100|95-100|90-100|85-95 |18-30 3-11 12-20 | Silt loam, CL-ML, CL A-4, A-6 0 |98-100|95-100|90-100|85-95 |25-36 7-16 silty clay loam 20-32 |Silt loam, CL A-4, A-6 0 |98-100|95-100|90-100|85-95 |28-40 | 9-18

0

|98-100|95-100|85-100|65-95 |20-30 | 3-10

silty clay loam

loam to very fine sand

32-60 | Stratified silt | CL, CL-ML, ML | A-4

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	 Depth	USDA texture	Classi	fication	Fragi	ments		rcentag sieve n	_	-	 Liquid	 Plas-
and	ĺ	İ	ĺ		>10	3-10	İ				limit	ticity
soil name	ĺ	İ	Unified	AASHTO	inches	inches	4	10	40	200	Ï	index
	In	<u> </u>	I	Ţ.	Pct	Pct	ļ.	[]	Pct	[
64A:	 		l I			 	 		 			
Totagatic	0-4	Muck	 PT	A-8	0	0	100	100	i			
	4-8	Loamy fine	SM	A-2	0	0	100	100	50-80	20-35	0-23	NP-6
	ĺ	sand, loamy	İ		İ	İ	ĺ	İ	ĺ	İ	İ	İ
	ĺ	sand, fine	İ		İ	İ	ĺ	İ	ĺ	İ	İ	İ
	ĺ	sand, sand	İ		İ	İ	ĺ	İ	ĺ	İ	İ	İ
	8-17	Fine sand,	SM	A-2	0	0	100	100	50-80	5-45	0-23	NP-6
		sand, loamy										
		sand, loamy										
		fine sand										
	17-28	Fine sand,	SM	A-2, A-3	0	0	100	100	50-80	5-35	0-23	NP-6
		sand, loamy										
		sand, coarse	!						ļ			!
		sand, mucky	!						ļ			!
		sand	!		!			!	ļ			!
	28-46	Sand, fine	SM	A-2, A-3	0	0	100	100	50-80	5-35	0-23	NP-6
		sand, loamy										
		sand, coarse										
		sand, mucky										
	 46-70	sand Sand, coarse	 SM			 0	 100	100		- 45		
	46-70	1	SM	A-2, A-3	0	0	1 100	1 100	50-80	5-45	0-23	NP-6
	 	sand, loamy	 				 					
	l I	sand, line sand, loamy	 		 		 	 	 			
	l I	fine sand	 		1	 	l I	1	l I	1		
	 70-80	Sand, coarse	SM	A-2, A-3	0	0	100	100	50-80	5-45	0-23	ND-6
	70-80 	sand, fine	SM	A-2, A-3	0	0	1 100	1 100	1 20 - 80	3-43	0-23	MF - 0
	 	sand, loamy	 		 	 	 	 	 			
	 	sand, loamy	 		i	! 	 	i	i i	i		i
	İ	fine sand	İ		İ		İ	İ	İ	İ		İ
		į	İ		İ	į	ĺ	İ	İ	İ	į	į
Winterfield		Loamy sand	SC-SM, SM	A-2-4	0	0	100		65-80		1	NP-7
	7-60	Sand, gravelly		A-1-b, A-2-4,	0	0	60-100	60-100	40-75	5-15	0-14	NP
		sand, gravelly		A-3	1			1			-	
		loamy sand,										
		loamy sand										1
										1		

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif:	ication	Fragi	ments		rcentag sieve n	_	-	Liquid	 Plas
and	Depen	ODDII CCRCGIC			>10	3-10	¦ '	51070 11	umber		limit	
soil name			Unified	AASHTO	1	inches	4	10	40	200		index
	In	1			Pct	Pct	i			1	Pct	
		ļ						[ļ	ļ		
69C:												
Keweenaw	0-2		SC, SC-SM, SM		0-2					15-30	1	NP-10
	2-4	Sandy loam,	SC, SC-SM, SM		0	0-50	85-100	65-100	45-75	15-35	0-20	NP-10
		loamy sand,		A-2-4	-							
		gravelly loamy										
		fine sand,										
		cobbly loamy	l I			 			 			1
	4 16	Sand	SC, SC-SM, SM	3 2 3 1 2	0	0.05	 0F 100	 CE 100	 45 75	15-35	0 00	 NP-10
	4-16	gravelly loamy		A-2, A-1-6,	0	0-25	 82-T00	 02-T00	45-75	12-35	0-20	NP-IO
		graverry roamy	 	A-2-4	1	 	 	l I	 	1	l I	1
		sand, roamy	 		-	l I		l I	l I	1	1	
		loamy fine	 		-	l I	 	 	l I		I	I I
		sand	 			l I	 	l I	I I		1	i
	16-20		SC, SC-SM,	A-2, A-1-b	0	 0-25	 85_100	 65-100	 45_75	10-25	0-20	 NP-10
	10-20	cobbly loamy	SM, SP-SM	H-Z, H-I-D	0	0-23	03-100	03-100	13-73	10-23	0-20	111 - 10
		fine sand,	511, 51 511		1	 	i	 	 	i		i
		gravelly loamy	 		1	 	i	 	 	i		i
		sand, sand			1	! 	i		İ	1		i
	20-27	1	SC, SC-SM,	A-1-b, A-2,	0	0-25	85-100	65-100	45-75	10-25	0-23	NP-10
		cobbly sand,	SM, SP-SM	A-2-4	i			İ	i			i
		gravelly loamy	İ		i	İ	i	İ	İ	i	İ	i
		fine sand	İ		i	İ	i	i	į	i	İ	i
	27-43	Sand, cobbly	SC, SC-SM,	A-3, A-1-b,	0	0-25	85-100	65-100	40-80	5-20	0-27	NP-10
		loamy sand,	SM, SP-SM	A-2, A-2-4	i	İ	i	i	į	i	İ	i
		gravelly loamy	İ		İ	İ	İ	İ	į	Ì	İ	İ
		fine sand,			ĺ	ĺ	İ	İ	ĺ	İ	İ	İ
		sandy loam			ĺ	ĺ	İ	ĺ	ĺ	İ	İ	İ
	43-75	Loamy sand,	SC, SC-SM, SM	A-1-b, A-2,	0	0-25	85-100	65-100	45-80	10-30	0-30	NP-10
		sandy loam,		A-2-4								
		fine sandy										
		loam, gravelly										
		loamy fine										
		sand										
	75-80	Loamy sand,	SC, SC-SM,	A-1-b, A-2,	0	0-25	85-100	65-100	45-75	10-25	0-20	NP-10
		gravelly loamy	SM, SP-SM	A-2-4								
		sand, cobbly										
		sand										

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif	ication	Frag	ments		rcentag	-	_	 Liquid	 Plas
and	i -	İ			>10	3-10	İ				limit	ticity
soil name		į	Unified	AASHTO	inches	inches	4	10	40	200	j	index
	In				Pct	Pct					Pct	
69C:			 	 			 		 			
Sayner	0-2	Loamy sand	SM	A-1	0-2	0-15	85-100	75-100	45-75	15-30	0-14	NP
	2-4	Loamy sand, sand	SM, SP-SM	A-1 	0	0-15 	85-100 	75-100 	40-75 	10-30	0-14	NP
	4-7 	Loamy sand, sand, gravelly coarse sand, loamy coarse sand	SM, SP-SM 	A-1, A-3 	0 	0-15 	70-100 	50-100 	25-75 	3-30	0-14 	NP
	7-14 	Sand, loamy sand, gravelly sand, loamy coarse sand	SM, SP-SM 	A-1, A-3 	0 	0-15	70-100 	50-100 	25-75 	3-30	0-14	NP
	14-22 	Gravelly sand, loamy sand, coarse sand, loamy coarse sand	SM, SP, SP-SM 	A-1, A-3 	0 	0-15 	70-100 	50-100 	25-75 	3-30	0-14 	NP
	22-60	Stratified sand to very gravelly coarse sand	SP, SP-SM 	A-1 	0 	0-15 	60-85 	40-85 	25-45 	0-10	0-14	NP
Vilas	 0-2	Loamy sand	 SM	 A-1-b, A-2-4	0-2	0	 80-100	 75-100	 30-75	10-35	0-14	 NP
	2-4	Loamy sand	SM, SP-SM	A-1-b, A-2-4,	0	0 	80-100	75-100	30-75	5-35	0-14	NP
	4-11	Loamy sand	SM	A-1-b, A-2-4	0	0	80-100	75-100	30-75	10-35	0-14	NP
		Sand, loamy sand	SM, SP-SM	A-1-b, A-2-4, A-3	0	0 	80-100	75-100	20-75	5-35	0-14	NP
	23-32	Sand	SM, SP-SM	A-1-b, A-2-4, A-3	0	0 	80-100	75-100	20-70	5-25	0-14	NP
	32-80	Sand	SM, SP-SM	A-1-b, A-2-4, A-3	0	0 	80-100 	75-100	20-70 	5-25	0-14	NP

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif:	ication	Fragi	ments		rcentag sieve n	_	-	 Liquid	 Plas
and	2 op om			I	>10	3-10		32010 11			limit	
soil name			Unified	AASHTO	1	inches	4	10	40	200	.	index
	In	1			Pct	Pct	<u> </u>	1		1	Pct	
69E:												
Keweenaw	0-2	Loamy sand	laa aa ay ay		0-2	0 00	100 100	 75 100	140 75	15-30	0 00	 NP-10
keweenaw	2-4	Sandy loam,	SC, SC-SM, SM		0-2					15-30		NP-10
	2-4	loamy sand,	SC, SC-SM, SM	A-1-D, A-2,	0	0-50	102-100	102-100	45-75	12-33	0-20	NP-IU
		gravelly loamy	 	A-2-4	-	l I		l I	l I	1	1	
		fine sand,	 	 	-	l I	 	 	l I	1	I	
		cobbly loamy	 	 		l I	 	l I	I I		1	1
		sand	 	 		 	 	 	 	1		
	4-16	Cobbly loamy	SC, SC-SM, SM	 A_2 A_1_h	0	 0-25	 85_100	 65-100	 45_75	15-35	0-20	NP-10
	1 10	fine sand,	De, De BM, BM	A-2-4		0 23		03 100	13 ,3	13 33	0 20	101
		loamy sand,	i I	 -	1	 	<u> </u>	i i	İ	ì		i
		gravelly loamy	 	 	1	 		 	 	i		i
		sand, sandy	 	 	1	 		 	 	i		i
		loam	İ	! 	i	! 	i	i	i	i		i
	16-20	Loamy sand,	SC, SC-SM,	A-2, A-1-b	0	0-25	85-100	65-100	45-75	10-25	0-20	NP-10
		cobbly loamy	SM, SP-SM		ì			i	i			
		fine sand,	İ	İ	i	İ	i	İ	İ	i	i	i
		gravelly loamy	İ	İ	i	İ	i	İ	İ	i	i	i
		sand, sand	İ	İ	i	İ	i	İ	İ	i	İ	i
	20-27	Loamy sand,	SC, SC-SM,	A-1-b, A-2,	0	0-25	85-100	65-100	45-75	10-25	0-23	NP-10
		cobbly sand,	SM, SP-SM	A-2-4	i	İ	İ	i	į	i	İ	i
		gravelly loamy	İ	İ	İ	İ	į	İ	į	İ	İ	İ
		fine sand	İ		ĺ	ĺ	İ	ĺ	ĺ	İ	İ	ĺ
	27-43	Sand, cobbly	SC, SC-SM,	A-3, A-1-b,	0	0-25	85-100	65-100	40-80	5-20	0-27	NP-10
		loamy sand,	SM, SP-SM	A-2, A-2-4								
		gravelly loamy										
		fine sand,										
		sandy loam										
	43-75	Loamy sand,	SC, SC-SM, SM	A-1-b, A-2,	0	0-25	85-100	65-100	45-80	10-30	0-30	NP-10
		sandy loam,		A-2-4								
		gravelly loamy										
		fine sand,										
		fine sandy										
		loam										
	75-80	Loamy sand,		A-1-b, A-2,	0	0-25	85-100	65-100	45-75	10-25	0-20	NP-10
		gravelly loamy	SM, SP-SM	A-2-4								
		sand, cobbly										
		sand										

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif	ication	Frag	ments		rcentag	-	_	 Liquid	 Plas-
and	i -	İ			>10	3-10	İ				limit	ticity
soil name		İ	Unified	AASHTO	inches	inches	4	10	40	200	j	index
	In				Pct	Pct					Pct	
69E:			 	 			 		 			
Sayner	0-2	Loamy sand	SM	A-1	0-2	0-15	85-100	75-100	45-75	15-30	0-14	NP
	2-4	Loamy sand, sand	SM, SP-SM 	A-1 	0	0-15 	85-100 	75-100 	40-75 	10-30	0-14	NP
	4-7 	Loamy sand, sand, gravelly coarse sand, loamy coarse sand	SM, SP-SM 	A-1, A-3 	0 	0-15 	70-100 	50-100 	25-75 	3-30	0-14 	NP
	7-14 	Sand, loamy sand, gravelly sand, loamy coarse sand	SM, SP-SM 	A-1, A-3 	0 	0-15	70-100 	50-100 	25-75 	3-30	0-14	NP
	14-22 	Gravelly sand, loamy sand, coarse sand, loamy coarse sand	SM, SP, SP-SM 	A-1, A-3 	0 	0-15 	70-100 	50-100 	25-75 	3-30	0-14 	NP
	22-60	Stratified sand to very gravelly coarse sand	SP, SP-SM 	A-1 	0 	0-15 	60-85 	40-85	25-45 	0-10	0-14	NP
Vilas	 0-2	Loamy sand	 SM	 A-1-b, A-2-4	0-2	0	 80-100	 75-100	 30-75	10-35	0-14	 NP
	2-4	Loamy sand	SM, SP-SM	A-1-b, A-2-4,	0	 0 	80-100	75-100	30-75	5-35	0-14	NP
	4-11	Loamy sand	SM	A-1-b, A-2-4	0	0	80-100	75-100	30-75	10-35	0-14	NP
	11-23	Sand, loamy sand	SM, SP-SM	A-1-b, A-2-4, A-3	0	0 	80-100	75-100	20-75	5-35	0-14	NP
	23-32	Sand	SM, SP-SM	A-1-b, A-2-4, A-3	0	0 	80-100	75-100	20-70	5-25	0-14	NP
	32-80	Sand	SM, SP-SM	A-1-b, A-2-4, A-3	0	0 	80-100	75-100	20-70	5-25	0-14	NP

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif	ication	Fragi	ments		rcentago sieve no	_	-	 Liquid	 Plas-
and				1	>10	3-10	i				limit	
soil name			Unified	AASHTO	1	inches	4	10	40	200		index
	In		1	1	Pct	Pct	<u> </u>	I		Ī	Pct	
		İ	İ	İ	İ	į	į	į	į	İ	İ	į
82B:				ĺ	İ	İ	ĺ	İ	ĺ	İ	İ	ĺ
Cutaway	0-10	Loamy fine sand	SC-SM, SM, SC	A-2-4	0	0	95-100	85-100	75-95	20-35	0-28	NP-9
	10-21	Loamy fine	SC-SM, SM, SC	A-2-4	0	0	95-100	85-100	75-95	20-35	0-25	NP-9
		sand, loamy										
		sand										
	21-24		SC-SM, SM, SC	A-4, A-2-4	0	0	95-100	85-100	75-95	30-40	17-30	3-12
		loam, loamy							!	!		!
		fine sand										
	24-35		SC, CL	A-6	0	0-7	97-100	90-96	70-85	35-50	27-40	10-20
		loam, loam										
	35-53		CL, SC	A-6	0	0-7	97-100	90-96	75-90	35-50	24-37	9-18
	F2 00	clay loam						100.06				
	53-80		CL, SC	A-6	0	0-7	97-100	90-96	/5-90	35-50	22-35	7-16
		clay loam	l I	 			 		 			
Branstad	0-9	 Fine sandy loam	lec_ewrec	 A-4	0	0-7	 05_100	 80-98	 66_06	30-55	122-32	 5-11
branstau	0-3	Fine Sandy IOam	CL-ML	A-4	0	0-7	 03-100	00-30	55-65	30-33	22-32	1 2-11
	9_14	Fine sandy	CL, CL-ML,	A-2-4, A-4,	0	0-7	 85-100	80-98	 45-95	25-75	21-34	6-16
	, ,	loam, loam,	SC, SC-SM	A-6		0 ,	03 100		13 33	1 23 73	21 31	0 10
		sandy loam			i	<u> </u>	İ	i	i	i		i
	14-20	-	CL, SC, SC-SM	A-4, A-6, A-	0	0-7	85-100	80-98	45-95	25-75	23-36	8-17
		loam, sandy		2-4		i			i			i
		clay loam,	İ	į	i	į	į	i	į	i	İ	į
		loam, sandy	İ	İ	İ	į	į	į	į	İ	İ	į
		loam										
	20-45	Sandy clay	CL, SC, SC-SM	A-4, A-6, A-	0	0-7	85-100	80-98	55-95	30-75	23-36	8-17
		loam, fine		2-4								
		sandy loam,										
		loam										
	45-55		CL, SC, SC-SM	A-4, A-6	0	0-7	85-100	80-98	55-95	30-75	23-36	8-17
		loam, fine							!	!		!
		sandy loam,										
	FF 60	loam										
	55-68		CL, SC, SC-SM	A-4, A-6	0	0-7	85-100	80-98	55-95	30-75	23-36	8-17
		loam, sandy clay loam,	 	 			 	 	 			
		loam	 	 		 	l I	1	l I	-		l I
	68-80		CL, SC, SC-SM	 	0	0-7	 85_100	80-98	 55-95	30-75	23-36	 8-17
	30-00	loam, loam,				0-7				30-73	23-30	0-17
		sandy clay		! 	1	<u> </u>	İ	i	İ	1		İ
		loam		İ		<u> </u>			İ	1		
				İ	i	i	İ	i	İ	i	i	İ
		1		1								

Table 22.--Engineering Index Properties--Continued

	Depth	USDA texture	Classif:	ication	Fragi	ments		rcentage sieve n	-	-	 Liquid	 Plas-
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In	ļ			Pct	Pct				ļ.	Pct	ļ
82C:		 	 			 	 	 	 			
Cutaway	0-10	Loamy fine sand	SC, SC-SM, SM	A-2-4	0	0	95-100	85-100	75-95	20-35	0-28	NP-9
_	10-21	Loamy fine	SC-SM, SM, SC	A-2-4	0	0	95-100	85-100	75-95	20-35	0-25	NP-9
		sand, loamy		<u> </u> 	į į	j I	j I	 		į į		
	21-24	Fine sandy	SC-SM, SM, SC	A-4, A-2-4	0	0	95-100	85-100	75-95	30-40	17-30	3-12
		loam, loamy	İ		İ	İ	ĺ	ĺ	ĺ	İ	İ	ĺ
		fine sand	İ		İ	İ	ĺ	ĺ	ĺ	İ	İ	ĺ
	24-35	Sandy clay	SC, CL	A-6	0	0-7	97-100	90-96	70-85	35-50	27-40	10-20
		loam, loam	İ		İ	İ	ĺ	ĺ	ĺ	İ	İ	ĺ
	35-53	Loam, sandy	CL, SC	A-6	0	0-7	97-100	90-96	75-90	35-50	24-37	9-18
		clay loam										
	53-80	Loam, sandy	CL, SC	A-6	0	0-7	97-100	90-96	75-90	35-50	22-35	7-16
		clay loam	 	 		 	 	 	 			
Branstad	0-9	Fine sandy loam	•	A-4	0	0-7	85-100	80-98	55-85	30-55	22-32	5-11
			CL-ML									
	9-14	Fine sandy	CL, CL-ML,	A-2-4, A-4,	0	0-7	85-100	80-98	45-95	25-75	21-34	6-16
		loam, loam,	SC, SC-SM	A-6								
		sandy loam										
	14-20		CL, SC, SC-SM		0	0-7	85-100	80-98	45-95	25-75	23-36	8-17
		loam, sandy		A-2-4					ļ			
		clay loam,			1							
		loam, sandy			1							
		loam										
	20-45	Sandy clay	CL, SC, SC-SM		0	0-7	85-100	80-98	55-95	30-75	23-36	8-17
		loam, fine		A-2-4	1							
		sandy loam,										
	4	loam										
	45-55		CL, SC, SC-SM	A-4, A-6	0	0-7	85-100	80-98	55-95	30-75	23-36	8-17
		loam, fine										
		sandy loam,							 			
		loam										
	55-68		CL, SC, SC-SM	A-4, A-6	0	0-7	85-100	80-98	55-95	30-75	23-36	8-17
		loam, sandy										
		clay loam,							 			
	60.00	loam			1 0		 0F 100	100.00			122.26	
	08-80		CL, SC, SC-SM	A-4, A-6	0	0-7	82-T00	80-98	55-95 	30-75	23-36	8-1/
		loam, loam,	 	 	1			l I	l I			
		sandy clay	 	 	1		I I	l I	l I			I I
		Logm	 	 	1			l I	l I			
		1	l		1	I	I	l	l	1		I

Classification Fragments Percentage passing Map symbol Depth USDA texture sieve number --|Liquid| Plasand >10 3-10 limit | ticity soil name Unified AASHTO inches inches 4 10 200 index Pct Pct 83A: Smestad-----0-10 Loamy fine sand SM, SC-SM A-2-4 0 0 100 |98-100|75-95 |20-35 0-30 NP-7 SM, SC-SM |98-100|75-95 |20-35 10-32 | Loamy fine A-2-4 0 0 100 0-24 NP-7 sand, fine sand 32-37 | Fine sandy SC, SC-SM, SM A-4 0 0 |93-100|65-85 |35-55 |18-31 | 3-13 loam, sandy loam 37-57 | Clay, silty CH A-7-6 0 0 |98-100|95-100|90-95 |68-88 |44-59 100 clay A-7-6 57-80 | Clay, silty CH 0 0 |98-100|95-100|90-95 |64-84 |40-56 clay 85B: Taylor-----CL, CL-ML A-4, A-6 0 85-95 | 60-75 | 22-37 6-13 0 - 9 Loam 0 100 100 A-6, A-7 9-14 Clay loam, loam CL-ML, CL 0 0 100 100 |85-100|70-90 |23-51 6-29 A-7-6 14-25 Clay CH 0 0 100 100 90-100|65-100|68-92 |44-63 25-32 Clay, silty A-7-6 90-100|65-100|64-88 |40-59 CH 0 0 100 100 clay 32-60 |Silty clay, CH A-7-6 0 0 100 |90-100|65-100|60-88 |37-59 100 clay 85C: Taylor-----0 - 9 Loam CL. CL-ML A-4, A-6 0 0 100 100 85-95 | 60-75 | 22-37 6-13 Clay loam, loam CL-ML, CL 9-14 A-6, A-7 0 0 100 100 |85-100|70-90 |23-51 6-29 14-25 Clay CH A-7-6 0 0 100 100 90-100|65-100|68-92 |44-63 25-32 Clay, silty A-7-6 90-100|65-100|64-88 |40-59 CH 0 0 100 100 clay 32-60 | Clay, silty CH A-7-6 0 0 100 |90-100|65-100|60-88 |37-59 100 clay 86A: Indus-----| Clay loam CH, CL A-7 0 0 |97-100|90-100|70-80 |39-58 9-21 Clay CH A-7 0 0 100 |97-100|90-100|75-95 |71-97 |45-64 21-25 Clay CH A-7 |97-100|90-100|75-95 |67-97 |41-64 0 0 100

A-7

A-7

0

0

0

|98-100|95-100|90-100|75-95 |58-91 |36-63

|98-100|95-100|90-100|75-95 |58-91 |36-63

25-39 | Clay, silty

| clay 39-60 |Clay, silty

clay

CH

CH

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol and	Depth	USDA texture	Classif	ication	_i	ments		rcentage sieve n	e passi: umber	ng	 Liquid	
					>10	3-10			1	1	limit	ticity
soil name		<u> </u>	Unified	AASHTO		inches	4	10	40	200		index
	In				Pct	Pct					Pct	
86A:	 					 	 	 	 	l I	 	l I
Alango	0-9	Clay loam	CH, CL	A-7	i o	0	100	97-100	90-100	70-80	39-58	19-28
•	9-10	Silty clay	CH, CL	A-7	i o	0	100	97-100	90-100	85-95	42-57	21-33
	 	loam, silty		į i		 	i I		i I	i I	 	i I
	10-28		СН	A-7	0	0	100	97-100	90-100	75-95	71-97	45-64
		Clay, silty	CH	A-7	0	0	100		1	75-95	1	37-64
		clay					İ			i		İ
	60-80	Clay, silty	СН	A-7	0	0	100	97-100	90-100	75-95	61-97	37-64
	İ	clay	İ	İ	İ	į	į	İ	i	į	į	İ
89A:						 	 			 	 	
Wildwood	0-12	Muck	PT	A-8	0	0	100	100				
		Silty clay	CH	A-7	0	0	100	100	95-100	90-95	51-70	29-40
		Clay, silty	CH	A-7	0	0	100	100		75-95		44-59
		clay		İ	i	i	İ		i	İ	i	İ
	24-60	Clay, silty	CH	A-7	j o	0	100	100	90-100	75-95	67-82	44-55
		clay		į	į	į	į		į	į	į	į
96B:						 	 		 	 	 	
Karlsborg	0-9	Sand	SM	A-2	i o	0	95-100	95-100	50-70	5-15	17-25	2-4
•	9-28	Sand	SM	A-2	0	0		95-100		5-15		NP-4
	28-48	Clay	СН	A-7	0	0	100	100	85-100	85-100	67-86	44-59
	48-80	Sand, fine	SM	A-2	0	0	100	100	50-70	5-25	0-19	NP-2
		sand, loamy			Ì	İ	ĺ		İ	ĺ	İ	ĺ
		fine sand					ļ					
96C:	 					 	 		 	 	 	
Karlsborg	0-9	Sand	SM	A-2	0	0	95-100	95-100	50-70	5-15	17-25	2-4
	9-28	Sand	SM	A-2	0	0	95-100	95-100	50-70	5-15	0-21	NP-4
	28-48	Clay	CH	A-7	0	0	100	100	85-100	85-100	67-86	44-59
	48-80	Sand, fine	SM	A-2	0	0	100	100	50-70	5-25	0-19	NP-2
		sand, loamy										
		fine sand										
96D:	 					 	 	 	 	[]	 	
Karlsborg	0-9	Sand	SM	A-2	0	0	95-100	95-100	50-70	5-15	17-25	2-4
	9-28	Sand	SM	A-2	0	0	95-100	95-100	50-70	5-15	0-21	NP-4
	28-48	Clay	CH	A-7	0	0	100	100	85-100	85-100	67-86	44-59
	48-80	Sand, fine	SM	A-2	0	0	100	100	50-70	5-25	0-19	NP-2
		sand, loamy										
		fine sand										

Table 22.--Engineering Index Properties--Continued

			Classif	icati	on	Fragi	ments		rcentag	_	ng		
Map symbol	Depth	USDA texture				.			sieve n	mber		Liquid	
and						>10	3-10	ļ				limit	-
soil name		<u> </u>	Unified	A	ASHTO	inches	inches	4	10	40	200		index
	In		!			Pct	Pct					Pct	
100B:			 				 	 	 	 			
Menahga	 0-2	Sand	SM	A-2,	A _ 3	0	l l 0	 95_100	 85-100	 55-70	5-15	0-14	 NP
menanga	2-25	Sand, loamy	SM	A-2,		0	0		85-100		5-20	0-14	NP
	223	sand			5	i	•	33 100	03 100	33 73	1 3 20	0 11	112
	25-80	Sand, coarse	SM	A-2,	A - 3	0	0	 95 - 100	85-100	 55-70	5-15	0-14	l NP
	25 55	sand		,	0						5 25	0 ==	
		İ	İ	İ		i	j	j	į	j	İ	į	į
100C:													
Menahga	0-1	Slightly	PT	A-8		0	0	100	100				
		decomposed											
		plant material											
	1-2	Sand	SM	A-2,	A-3	0	0		85-100		5-15	0-14	NP
	2-25	Sand, loamy	SM	A-2,	A-3	0	0	95-100	85-100	55-75	5-20	0-14	NP
		sand											
	25-80	Sand, coarse	SM	A-2,	A-3	0	0	95-100	85-100	55-70	5-15	0-14	NP
		sand											
100D:			 				l I	 	 	 		 	
Menahga	 0-1	Slightly	 PT	A-8		0	l 0	100	100	 			I I
Menanga	0-1	decomposed		A -0		0	0	1 100	100	 			
		plant material	! 	i		i	 	 	! 	 	İ		l I
	1-2	Sand	SM	A-2,	A-3	0	0	95-100	85-100	55-70	5-15	0-14	NP
	2-25	Sand, loamy	SM	A-2,		0	0		85-100		5-20	0-14	NP
		sand		i		i					İ		İ
	25-80	Sand, coarse	SM	A-2,	A-3	0	0	95-100	85-100	55-70	5-15	0-14	NP
		sand	İ	İ		İ	İ	İ	į	į	İ	į	İ
				ĺ		Ì	ĺ	ĺ	ĺ	ĺ	İ	İ	ĺ
120B:													
Kost	0 - 9	Fine sand	SM	A-2,	A-3	0	0	100	100	65-80	5-35	0-22	NP-2
	9-25	Fine sand	SM	A-2,	A-3	0	0	100	100	50-80	5-35	0-22	NP-2
	25-36	Sand, fine sand	SM, SP-SM	A-2,	A-3	0	0	100	100	50-80	5-35	0-19	NP-2
	36-42	Fine sand, sand	SM, SP-SM	A-2,	A-3	0	0	100	100	50-80	5-35	0-19	NP-2
	42-60	Sand, fine sand	SM, SP, SP-SM	A-2,	A-3	0	0	100	100	50-80	5-30	0-19	NP-2

Table 22.--Engineering Index Properties--Continued

Map symbol	 Depth 	u USDA texture _	Classi 	fication	Fragi >10	ments 		_	e passi umber	-	 Liquid limit	1
soil name			Unified	AASHTO		inches	4	10	40	200		index
	In				Pct	Pct				İ	Pct	İ
127D:	 	 	 				 	 				
Amery	0-3	Sandy loam	SC-SM, SM	A-2-4, A-4	0-5	0-7	85-100	75-98	50-75	25-40	0-23	NP-6
	3-22	Sandy loam,	SC-SM, SM	A-2-4, A-4	0-5	0-7	55-100	50-90	50-75	25-45	0-23	NP-7
 	 	loam, gravelly loam, gravelly sandy loam	1		 	 	 	 	 	 	 	
	22-34	Sandy loam,	SC-SM, SM	A-1-b, A-2-4,	0-5	0-7	55-100	50-90	35-75	15-40	0-23	NP-7
		fine sandy		A-4	İ	İ	İ	İ	İ	İ	İ	İ
		loam, gravelly		Ì	İ	İ	İ	İ	İ	İ	İ	İ
		sandy loam		Ì	İ	İ	İ	İ	İ	İ	İ	İ
	34-41	Gravelly sandy	SC-SM, SM	A-1-b, A-2-4,	0-5	0-7	55-100	50-90	35-75	15-40	0-23	NP-7
		loam, fine		A-4	İ	İ	İ	İ	İ	İ	İ	İ
		sandy loam,		Ì	İ	İ	İ	İ	İ	İ	İ	İ
		sandy loam		Ì	İ	İ	İ	İ	İ	İ	İ	İ
	41-57	Gravelly sandy	SC, SM	A-2-4, A-4,	0-5	0-7	55-100	50-90	35-75	20-45	0-28	NP-9
		loam, fine		A-1-b	İ	İ	İ	İ	İ	İ	İ	İ
		sandy loam,		Ì	İ	İ	İ	İ	İ	İ	İ	İ
		sandy loam		Ì	İ	İ	İ	İ	İ	İ	İ	İ
	57-71	Sandy loam,	SC, SM	A-2-4, A-4,	0-5	0-7	55-100	50-90	35-75	20-45	0-28	NP-9
		fine sandy		A-1-b								
		loam, gravelly										
		sandy loam		Ì	İ	İ	İ	İ	İ	İ	İ	İ
	71-80	Sandy loam,	SC-SM, SM	A-1-b, A-2-4,	0-5	0-7	55-100	50-90	35-75	15-45	0-23	NP-7
		fine sandy		A-4	İ	İ	İ	İ	İ	İ	İ	İ
		loam, gravelly		Ì	İ	İ	İ	İ	İ	İ	İ	İ
		sandy loam						1				

Soi
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호

Map symbol	Depth	USDA texture	Classi	fication	Fragi	ments		rcentag sieve n	_	-	 Liquid	 Plas-
and	202011				>10	3-10						ticity
soil name			Unified	AASHTO		inches	4	10	40	200		index
	In	İ			Pct	Pct	İ	ĺ	Ī		Pct	1
		ļ	[Ţ		[ļ	ļ	!			!
127D:												
Rosholt	0 - 4	1	SM	A-2, A-4				75-100				1
	4-10	Sandy loam,	SC-SM, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
		fine sandy										
		loam, gravelly										
		loamy sand										
	10-14	Sandy loam,	SC-SM, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
		fine sandy										
		loam, gravelly										
		loamy sand										
	14-28	Sandy loam,	SC, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-80	20-45	0-26	NP-8
		fine sandy										
		loam, gravelly										
		loam	İ	İ		İ	ĺ	İ	İ	İ	İ	İ
	28-34	Gravelly loamy	GM, GP-GM,	A-1, A-2, A-3	0	0-25	30-100	25-100	20-80	5-25	0-23	NP-6
	İ	sand, very	SM, SP-SM	j		į	į	İ	İ	İ	İ	İ
	İ	gravelly	İ	j		į	į	İ	İ	İ	İ	İ
	İ	coarse sand,	İ	i		į	į	į	İ	ì	İ	İ
	İ	sand	İ	İ		i	į	i	i	i	i	i
	34-60	Stratified sand	GP, GP-GM,	A-1, A-2, A-3	0	0-25	30-100	25-95	15-65	0-15	0-14	NP
	İ	to very	SP, SP-SM	İ		i	i	i	i	i	i	i
	İ	gravelly	i	İ		i	İ	i	i	i	i	i
	i	coarse sand	i	i		i	i	i	i	i	i	i
	i		i	i		i	i	i	i	i	i	i

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture _	Classi	fication	i	ments		_	e passi umber	-		 Plas-
and					>10	3-10					limit	ticity
soil name		<u> </u>	Unified	AASHTO	inches	inches	4	10	40	200		index
ļ	In				Pct	Pct					Pct	
127E:	 		 				 	 				
Amery	0-3	Sandy loam	SC-SM, SM	A-2-4, A-4	0-5	0-7	85-100	75-98	50-75	25-40	0-23	NP-6
	3-22	Sandy loam,	SC-SM, SM	A-2-4, A-4	0-5	0-7	55-100	50-90	50-75	25-45	0-23	NP-7
	ĺ	loam, gravelly		Ì	İ	İ	İ	İ	İ	İ	İ	ĺ
į	ĺ	loam, gravelly		ĺ	İ	İ	İ	ĺ	Ì	İ	İ	İ
1		sandy loam										
1	22-34	Sandy loam,	SC-SM, SM	A-1-b, A-2-4,	0-5	0-7	55-100	50-90	35-75	15-40	0-23	NP-7
		fine sandy		A-4								
		loam, gravelly										
ļ		sandy loam										
	34-41	Gravelly sandy	SC-SM, SM	A-1-b, A-2-4,	0-5	0-7	55-100	50-90	35-75	15-40	0-23	NP-7
		loam, fine		A-4								
		sandy loam,										
		sandy loam										
	41-57	Gravelly sandy	SC, SM	A-2-4, A-4,	0-5	0-7	55-100	50-90	35-75	20-45	0-28	NP-9
		loam, fine		A-1-b								
		sandy loam,										
		sandy loam		ļ			!	!				!
	57-71		SC, SM	A-2-4, A-4,	0-5	0-7	55-100	50-90	35-75	20-45	0-28	NP-9
		fine sandy		A-1-b	!		!	!		!	!	!
		loam, gravelly		ļ			!	!		!		!
		sandy loam										
	71-80		SC-SM, SM	A-1-b, A-2-4,	0-5	0-7	55-100	50-90	35-75	15-45	0-23	NP-7
	fine san	-		A-4			!			!		ļ
		loam, gravelly					!	ļ		1		ļ.
		sandy loam		ļ	!		!	!	1	1	[!

Classification

Map symbol D and	 Depth	USDA texture	Classif	ication	İ	ments		rcentag sieve n	e passi: umber	ng	Liquid	
and soil name		İ	Unified	AASHTO	>10	3-10		10	40	200	limit	ticity index
SOII Hame	In	1		AASHIO	Pct	Pct	*	10	40	200	Pct	Index
127E:		İ				 						
Rosholt	 0-4	Sandy loam	SM	 A-2, A-4	1-5	0-3	 80-100	 75-100	 50-75	25-40	0-21	 NP-4
	4-10		1	A-1, A-2, A-4					35-75		0-23	
	İ	fine sandy	į	Ì	İ	į	į	İ	į	İ	İ	İ
		loam, gravelly		ļ	[[[[[
		loamy sand										
	10-14	Sandy loam, fine sandy	SC-SM, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
		loam, gravelly	 		l I	 	 	l I	 	l I		
	i	loamy sand		i	i	i	i	i	i	i	İ	i
	14-28	Sandy loam,	SC, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-80	20-45	0-26	NP-8
		fine sandy		ļ	[[[[[
		loam, gravelly										
	20-34	loam Gravelly loamy	 CM CD-CM	 A-1, A-2, A-3	 0	0-25	 30-100	 25-100		 5-25	0-23	 ND_6
	20-34	sand, very	SM, SP-SM	A-1, A-2, A-3	0	0-23	30-100	23-100	20-80	3-23	0-23	NF - 0
		gravelly		İ	İ	i	i	İ	i	İ	İ	
		coarse sand,	İ	İ	ĺ	ĺ	ĺ	ĺ	ĺ	ĺ	İ	
		sand		ļ	!		!	!	!	!		
	34-60	Stratified sand		A-1, A-2, A-3	0	0-25	30-100	25-95	15-65	0-15	0-14	NP
	l I	to very gravelly	SP, SP-SM	}	l I	 	 	l I	 	l I		l I
		coarse sand		İ	İ		İ	İ	İ		İ	
151A:		l I	 	 			 		 			
Bluffton	0-8	Loam	ML	A-4	0	0	90-100	85-100	75-95	55-75	27-47	6-15
	8-19	Loam, silt	SC-SM, CL-ML,	A-2-6, A-6	0	0	90-100	85-100	55-100	25-90	22-35	6-15
		loam, sandy	CL, SC									
	 	loam, sandy clay loam	 	 	l I	 	 	l I	 	l I		l I
	 19-22	Fine sandy	SC-SM, CL-ML,	 A-4. A-6	 0	0	90-100	 85-96	 65-95	 35-75	22-38	 6-18
		loam, sandy	CL, SC		i	i -						
		clay loam,	İ	İ	ĺ	ĺ	ĺ	ĺ	ĺ	ĺ	İ	
		loam		ļ	!		!	!	!	!		
	22-26	Fine sandy	CL, CL-ML,	A-4, A-6	0	0	90-100	85-96	65-95	35-75	22-38	6-18
	l I	loam, sandy clay loam,	SC, SC-SM	}	l I	 	 	l I	 	l I		l I
		loam		ì	i		i	i	i	i	i	
	26-38	Loam, sandy	CL, CL-ML,	A-4, A-6	0	0	90-100	85-96	65-95	35-75	22-38	6-18
		clay loam,	SC, SC-SM	[[[[[
		fine sandy										
	30_60	loam Sandy clay	CL, CL-ML,	 A-4, A-6	 0	 0		 05-06	 65-95	 25_75	22-36	 6-18
	30-0U 	loam, fine	SC, SC-SM	A-4, A-0	0	0	 	 	03-35 	33-15 	44-38 	 0-T9
		sandy loam,		i	<u> </u>		i	<u> </u>	i	i		
	İ	loam	İ	İ	İ	į	į	İ	į	İ	į	İ
				[[

Table 22.--Engineering Index Properties--Continued

			Classif	ication	Frag	ments	Pe	rcentag	e passi	ng		
Map symbol	Depth	USDA texture			_		:	sieve n	umber		Liquid	Plas
and					>10	3-10					limit	ticit
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In	1			Pct	Pct					Pct	
152A:		 					 	 				
Alstad	0-9	Loam	ML	A-4	0	0-4	85-100	80-98	65-95	50-75	21-40	3-12
	9-15	Fine sandy	SC-SM, ML, SM	A-4	0	0-4	85-100	80-98	55-95	35-75	16-29	1-10
		loam, loam										
	15-18	Fine sandy	SC-SM	A-4, A-6	0	0 - 4	85-100	80-98	55-95	35-75	25-38	8-18
		loam, loam										
	18-24	Sandy clay	SC-SM	A-6	0	0-4	85-100	80-98	55-95	35-80	26-42	10-21
		loam, loam,										
		fine sandy										
		loam, clay		!				!	!	!		!
		loam		!				!	!	!		!
	24-49	Sandy clay	SC-SM	A-2-6, A-6	0	0-4	85-100	80-98	55-95	30-80	29-44	12-23
		loam, fine										ļ
		sandy loam,										
		loam, clay							-	-		1
	40 60	loam										
	49-60 Fine sandy	SC-SM	A-2-4	0	0-4	 85-T00	50-98	55-95	30-75	23-29	8-11	
		loam, loam			!			!	!	!	!	!

|90-100|85-100|55-95 |30-75 |23-29 | 8-11

Classification Percentage passing Fragments Map symbol Depth USDA texture sieve number -and >10 3-10 soil name Unified AASHTO |inches|inches| 4 10 40 200 In Pct Pct Cushing-----0-5 |Fine sandy loam | ML A-4 0 90-100 85-100 65-85 35-55 21-40 5-15 | Fine sandy |SC-SM, ML, SM|A-2-4, A-4 |90-100|85-100|55-95 |30-75 |16-29 0 loam, sandy loam, loam 15-33 | Sandy clay SC-SM A-2-4, A-2-6, loam, fine A-4, A-6 sandy loam, loam, clay loam, sandy loam 33-57 | Loam, sandy SC-SM A-2-6, A-6 clay loam, fine sandy loam, clay loam, sandy loam 57-65 | Fine sandy SC-SM A-2-6, A-6 loam, sandy clay loam, loam, clay loam, sandy loam

Table 22.--Engineering Index Properties--Continued

|Liquid| Plaslimit | ticity index 154E: 3-12 1-10 0-7 | 90-100 | 85-100 | 55-95 | 30-80 | 25-40 | 8-19 90-100|85-100|55-95 |30-80 |29-42 |12-21 0-7 | 90-100 | 85-100 | 55-95 | 30-80 | 29-42 | 12-21 65-73 | Fine sandy SC-SM A-2-6, A-6 0-7 | 90-100 | 85-100 | 55-95 | 30-80 | 29-42 | 12-21 loam, sandy clay loam, loam, clay

A-4, A-6

0

0-7

loam, sandy loam 73-80 | Fine sandy

loam, loam

SC-SM

Table 22.--Engineering Index Properties--Continued

Map symbol and	 Depth	USDA texture	Classif	ication	i	ments		rcentag sieve n	e passi: umber	ng	 Liquid	
					>10	3-10		1	1		limit	ticity
soil name		<u> </u>	Unified	AASHTO	<u> </u>	inches	4	10	40	200		index
	In				Pct	Pct				 	Pct	
156B:	 						 	l I	 	 		
Magnor, very	İ	İ	İ	İ	İ	į	İ	İ	İ	j	İ	İ
stony	0-4	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	20-33	3-10
	4-11	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	16-27	2-8
	11-16	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	17-26	3-9
	16-21	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	18-27	3-10
	21-39	Sandy loam,	SC-SM, CL-ML,	A-1, A-2, A-4	0-5	0-7	55-100	50-90	30-80	15-70	18-29	3-11
		fine sandy	CL, ML, SC,									
		loam, gravelly	SM									
		sandy loam,										
		loam										
	39-58	Fine sandy	CL-ML, SC-SM,	A-1, A-2, A-4	0-5	0-7	55-100	50-90	30-80	15-70	18-29	3-11
		loam, sandy	CL, ML, SC,									
		loam, gravelly	SM									
		sandy loam,	!				!	!	!	!		!
		loam	!				!	!	!	!		!
	58-60	Fine sandy	SC-SM, SM	A-1, A-2	0-5	0-7	55-100	50-90	30-60	15-30	0-26	NP-9
		loam, sandy					!		!			ļ
		loam, gravelly										
		fine sandy										
	 	loam	 	 		 	 	l I	 	l I		l I
Magnor	0-8	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	20-34	3-11
	8-11	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	16-27	2-8
	11-16	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	17-26	3-9
	16-21	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	18-27	3-10
	21-39	Sandy loam,	CL, ML, SC,	A-1, A-2, A-4	0-5	0-7	55-100	50-90	30-80	15-70	18-29	3-11
		fine sandy	SM, SC-SM,									
		loam, gravelly	CL-ML									
		sandy loam,										
		loam										
	39-58	Fine sandy	CL, ML, SC,	A-1, A-2, A-4	0-5	0-7	55-100	50-90	30-80	15-70	18-29	3-11
		loam, sandy	SM, CL-ML,									
		loam, gravelly	SC-SM									
		sandy loam,										
		loam										
	58-60	Fine sandy	SC-SM, SM	A-1, A-2	0-5	0-7	55-100	50-90	30-60	15-30	0-26	NP-9
		loam, sandy				!	!	ļ	!	ļ	!	!
		loam, gravelly				!	!	ļ	!	ļ	!	!
		fine sandy								ļ	-	ļ
j		loam	ļ.	!	1							!

Map symbol and	 Depth 	USDA texture	Classif	ication	Frag	ments 		_	e passi: umber	ng	 Liquid limit	
soil name			Unified	AASHTO		inches	4	10	40	200		index
	In]		Pct	Pct					Pct	
157B:	 		 	 	 	 	 	 	 			
Freeon, very	İ	İ	İ	İ	j	į	į	į	İ	İ	İ	İ
stony	0-4	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	20-34	3-11
	4-19	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	16-30	2-11
	19-39	Sandy loam,	CL-ML, SC-SM,	A-1, A-2, A-4	0-5	0-7	60-100	50-90	30-90	15-70	18-29	3-11
	 	gravelly loam	CL, ML, SC,		 	 	 	i I	İ İ	i I	İ İ	i I
	39-53 	Sandy loam, gravelly loam, fine sandy loam	CL, CL-ML, ML, SC, SC-SM, SM	A-1, A-2, A-4 	0-5 	0-7 	60-100 	50-90 	30-90	15-70 	0-26	NP - 9
	 53-80 	Sandy loam, gravelly fine sandy loam	 SC-SM, SM 	 A-1, A-2 	 0-5 	 0-7 	 60-100 	 50-90 	 30-90 	 15-35 	0-26	 NP-9
Freeon	0-4	Silt loam	CL, CL-ML, ML	 A-4	0-2	0-7	 90-100	85-100	80-100	70-90	20-34	3-11
	4-19	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	16-30	2-11
	19-39 	Sandy loam, gravelly loam		A-1, A-2, A-4	0-5 	0-7	60-100 	50-90 	30-90	15-70 	18-29	3-11
	39-53 	Sandy loam, gravelly loam, fine sandy loam	CL, CL-ML, ML, SC, SC-SM, SM	A-1, A-2, A-4 	0-5 	0-7 	 60-100 	50-90 	30-90 	15-70 	0-26	NP - 9
	53-80 	Sandy loam, gravelly fine sandy loam	SM, SC-SM	A-1, A-2 	0-5 	0-7 	60-100 	50-90 	30-90 	 15-35 	0-26	NP - 9
157C:				 								
Freeon, very												
stony	0-4	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	20-34	3-11
	4-19	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	16-30	2-11

		77777	Classif	ication	Frag	ments		_	e passi	ng		21.
Map symbol	Depth	USDA texture		1			!	sieve n	umber		Liquid	
and					>10	3-10		1 10	1 40		limit	
soil name	<u> </u>	<u> </u>	Unified	AASHTO		inches	4	10	40	200	<u> </u>	index
	In				Pct	Pct					Pct	
157B:	 		 	 	1		 	l İ	 			
Freeon, very	İ	İ	į	İ	i	į	i	i	į	i	i	i
stony	0-4	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	20-34	3-11
	4-19	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	16-30	2-11
	19-39	Sandy loam,	CL-ML, SC-SM,	A-1, A-2, A-4	0-5	0-7	60-100	50-90	30-90	15-70	18-29	3-11
	i I	gravelly loam	CL, ML, SC,	 					 			
	 39-53	Sandy loam,		 A-1, A-2, A-4	0-5	0-7	 60-100	 50-90	 30-90	115-70	0-26	 NTD = 9
	33 33	gravelly loam,		11 1 1 1 1 1 1 1	0 3	0 ,		30 30	30 30	1 23 70	0 20	1
	 	fine sandy	SC-SM, SM	! 	ì		<u> </u>	i i	 	İ		i
	 	loam		! 	i	İ				i		i
	53-80	Sandy loam,	SC-SM, SM	A-1, A-2	0-5	0-7	60-100	50-90	30-90	15-35	0-26	NP-9
	 	gravelly fine sandy loam	 	 	į Į	 	i I	; 	 	 	į į	
Freeon	0-4	 Silt loam	CL, CL-ML, ML	 a _ 4	0-2	0-7	 90-100	 85-100	 80-100	70-90	20-34	3-11
riecon	4-19	Silt loam	CL, CL-ML, ML	•	0-2	0-7	1		80-100		16-30	2-11
		Sandy loam,		A-1, A-2, A-4		0-5			30-90	1		3-11
	15-35 	gravelly loam				0-7		 	 			
	39-53	Sandy loam,		A-1, A-2, A-4	0-5	0-7	60-100	50-90	30-90	15-70	0-26	NP-9
	İ	gravelly loam,			i		i	İ				i
	İ	fine sandy	SC-SM, SM	İ	i	İ	i	İ	İ	İ	i	i
	İ	loam	į	İ	i	į	i	i	į	i	i	i
	53-80	Sandy loam, gravelly fine sandy loam	SM, SC-SM	A-1, A-2 	0-5	0-7	60-100 	50-90 	30-90 	15-35 	0-26	NP - 9
157C:	 			 			 	 	 			
Freeon, very	İ	İ	İ	İ	i	İ	i	İ	İ	İ	i	i
stony	0-4	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	20-34	3-11
	4-19	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	16-30	2-11
	19-39	Sandy loam,	CL, CL-ML,	A-1, A-2, A-4	0-5	0-7	60-100	50-90	30-90	15-70	18-29	3-11
	 	gravelly loam	ML, SC,	 -	İ	İ	į i	j i	i I	Ì	į	İ
	 39-53	Sandy loam,	CL, CL-ML,	 A-1, A-2, A-4	0-5	0-7	60-100	 50-90	30-90	115-70	0-26	 NTD = 9
	35 33	gravelly loam,		- , <u>-</u> , A- -	0 5	, ,				-3 ,0	0 20	
	İ	fine sandy	SC-SM, SM	İ	i		i	İ				i
	İ	loam		İ	i		i		<u> </u>			i
	53-80	Sandy loam,	SC-SM, SM	A-1, A-2	0-5	0-7	60-100	50-90	30-90	15-35	0-26	NP-9
	i	gravelly fine	i	i	i	i	i	i	i	i	i	i

Table 22.--Engineering Index Properties--Continued

Map symbol	 Depth	USDA texture	Classif	ication	i	ments		_	e passi: umber	ng	 Liquid	 Plas-
and					>10	3-10					limit	-
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct					Pct	
157C:			 	 	l İ	 	 	l İ		 		
Freeon	0-4	Silt loam	CL, CL-ML, ML	A-4	0-2	0-7	90-100	85-100	80-100	70-90	20-34	3-11
	4-19	Silt loam	CL, CL-ML, ML	A-4	0-2	0-5	90-100	85-100	80-100	70-90	16-30	2-11
	19-39	Sandy loam,	CL, CL-ML,	A-1, A-2, A-4	0-5	0-7	60-100	50-90	30-90	15-70	18-29	3-11
		gravelly loam	ML, SC,	İ	ĺ	ĺ	ĺ	ĺ	ĺ	ĺ	İ	İ
			SC-SM, SM									
	39-53	Sandy loam,	CL, CL-ML,	A-1, A-2, A-4	0-5	0-7	60-100	50-90	30-90	15-70	0-26	NP-9
		gravelly loam,	ML, SC,									
		fine sandy	SC-SM, SM									
		loam										
	53-80	Sandy loam,	SC-SM, SM	A-1, A-2	0-5	0-7	60-100	50-90	30-90	15-35	0-26	NP-9
		gravelly fine										
		sandy loam										
160A:		İ		 	İ	 	i i	İ				
Oesterle	0-7	Sandy loam	SC, SC-SM, SM	A-2, A-4	0	0-9	85-100	80-100	55-80	30-45	18-26	3-8
	7-11	Sandy loam,	SC, SM	A-2, A-4	0	0-9	75-100	70-100	50-80	25-45	18-26	3-8
		loam, gravelly										
		fine sandy										
		loam										
	11-31	Sandy loam,	SC, SM	A-1, A-2, A-4	0	0-9	55-100	50-100	35-75	15-40	0-28	NP-9
		gravelly loam,										
		fine sandy										
		loam										
	31-60	Stratified sand	GP, GP-GM,	A-1, A-2, A-3	0	0-9	30-100	25-95	15-65	0-15	0-14	NP
		to very	SP, SP-SM									
		gravelly										
		coarse sand										

Map symbol and	 Depth	USDA texture	 	Class	sif:	ication	_ii	ments 3-10		_	e passi umber	-	Liquid	
and soil name	 			Unified		AASHTO	>10 inches	3-10 inches	 4	10	40	200	limit	ticity
	In		i i			İ	Pct	Pct	İ	İ	i i	i i	Pct	İ
165B:														
Elderon	0-7	Sandy loam	SC,	SC-SM,	SM	A-2-4	0-2	3-25	85-100	75-93	45-65	25-35	18-31	2-10
	7-15	Very cobbly	GM,	SC-SM,	SM	A-1-b, A-2-4	0-5	15-55	30-60	25-55	15-35	10-15	16-27	2-10
		coarse sandy												
		loam, very												
		gravelly												
		coarse sandy												
		loam, very												
		gravelly sandy												
		loam, very												
		cobbly sandy												
		loam												
	15-44	Extremely	SM,	SC-SM,	GM	A-1-b, A-2-4	0-5	15-55	30-60	25-55	15-25	1-15	0-22	NP-6
		cobbly loamy												
		coarse sand,												
		very gravelly												
		coarse sand,												
		very cobbly												
		sand,												
		extremely												
		gravelly loamy												
		coarse sand,												
		very gravelly	!											!
		loamy sand	!							!				!
	44-60	Extremely	GW,	GC-GM		A-1-b	0-5	15-55	30-60	25-55	15-25	0-10	0-20	NP - 4
		cobbly coarse					-	!	ļ.	ļ			!	ļ.
		sand, very					-	!	ļ.	ļ			!	ļ.
		cobbly sand,												

very gravelly coarse sand, extremely gravelly sand

Table 22.--Engineering Index Properties--Continued

Man granhal	Donth	IIGDA toutume	Classif	ication	Frag	ments		rcentag	-	ng	 Time! =	
Map symbol and	Depth	USDA texture	l	I	_ >10	3-10] ;	sieve u	umer		Liquid limit	
soil name			 Unified	AASHTO	1	inches	4	10	40	200	11111111	index
	In				Pct	Pct	<u> </u>				Pct	
185B:						 	 		 	 		
Tradelake	0 - 9	Fine sandy loam	SC, SC-SM	A-4	0	0-5	95-100	90-100	50-100	35-55	22-37	6-13
	9-13 	Fine sandy loam, sandy loam	SM, SC-SM 	A-2-4, A-4 	0 	0-5 	95-100 	90-100 	75-100 	25-55 	16-23 	2-5
	13-21 	Fine sandy loam, sandy loam	SC-SM 	A-2-4, A-4 	0 	0-5 	95-100 	90-100 	75-100 	25-50 	18-25 	4-7
	21-25	Sandy loam, fine sandy loam	SC-SM 	A-2-4, A-4	0	0-5 	95-100 	90-100	 75-100 	25-50	 18-25 	4-7
	25-48	Clay, silty	CH 	A-7-6	0	 0 	100	100	95-100	 80-100 	68-88	 44-59
	48-52	Clay, silty	CH	A-7-6	0	 0 	100	100	95-100	80-100	68-88	 44-59
	52-80	Sand, loamy sand	SM 	A-2-4	0	0	90-100	85-100	 55-70 	5-15	0-21	NP - 4
Taylor	 0-9 	 Fine sandy loam 	 SC-SM, CL-ML, SC	 A-4, A-6 	 0 	 0 	 100 	 100 	 70-95 	 25-70 	 22-35 	 6-13
j	9-14	Clay loam, loam	CL-ML, CL	A-6, A-7	0	0	100	100	85-100	70-90	23-51	6-29
	14-25	Clay	CH	A-7-6	0	0	100	100	90-100	65-100	68-92	44-63
	25-32	Clay, silty clay	CH 	A-7-6 	0	0 	100 	100 	90-100 	65-100 	64-88 	40-59
	32-60	Clay, silty clay	CH 	A-7-6 	0	0	100 	100 	90-100	65-100 	60-88 	37-59
185C:			 			 		 				
Tradelake	0-9	Fine sandy loam	•	A-4	0		95-100					6-13
	9-13 	Fine sandy loam, sandy loam	SM, SC-SM 	A-2-4, A-4 	0 	0-5 	95-100 	90-100 	75-100 	25-55 	16-23 	2-5
	13-21 	Fine sandy loam, sandy loam	SC-SM 	A-2-4, A-4 	0 	0-5 	95-100 	90-100 	75-100 	25-50 	18-25 	4-7
	21-25		 sc-sm 	A-2-4, A-4 	0	 0-5 	 95-100 	 90-100 	 75-100 	 25-50 	 18-25 	 4-7
	25-48	Clay, silty	 СH 	A-7-6	0 	0 	100 	100	95-100 	80-100	68-88 	44-59
	48-52 	Clay, silty	CH 	A-7-6	0	, 0 	100	100	95-100 	80-100 	68-88	44-59
	52-80	Sand, loamy sand	SM 	A-2-4	0	0	90-100	85-100	55-70 	5-15	0-21	NP - 4
					1							

			Classif	ication	Fragi	ments		rcentag	_	ng		
Map symbol	Depth	USDA texture			_			sieve n	umber		Liquid	
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In			ļ	Pct	Pct		[ļ		Pct	ļ
185C:	 		 			 	 	 	 	 	 	
Taylor	 0-9 	Fine sandy loam	SC-SM, CL-ML,	A-4, A-6	0	 0 	100	100	70-95	25-70	22-35	6-13
	9-14 	Clay loam, fine sandy loam, loam	CL-ML, CL 	A-6, A-7 	0	0 	100 	100 	 90-100 	25-90 	 21-47 	6-28
	14-25	Clay	CH	A-7-6	j 0	0	100	100	90-100	65-100	63-85	43-61
	25-32	Clay, silty	CH	A-7-6	0	0 	100	100	90-100	65-100	59-81	39-58
	32-60		 Сн 	A-7-6 	0	0	100	100	 90-100 	65-100	 54-81 	 35-58
185D:	 		 	 		 		 	 			
Tradelake	0-9	Fine sandy loam	SC, SC-SM	A-4	0	0-5	95-100	90-100	50-100	35-55	22-37	6-13
	9-13	Fine sandy loam, sandy loam	SM, SC-SM	A-2-4, A-4	0	0-5	95-100	90-100	75-100	25-55	16-23	2-5
	 13-21 		 SC-SM 	A-2-4, A-4 	0	 0-5 	 95-100 	 90-100 	 75-100 	 25-50 	 18-25 	 4-7
	21-25 	Sandy loam, fine sandy loam	SC-SM	A-2-4, A-4 	0	0-5 	 95-100 	90-100 	 75-100 	25-50 	 18-25 	4-7
	25-48	Clay, silty	СH 	A-7-6	0	0 	100	100	95-100	80-100	68-88	44-59
	48-52	Clay, silty	Сн 	A-7-6	0	, 0 	100	100	95-100	80-100	68-88	44-59
	52-80	Sand, loamy sand	SM 	A-2-4 	0	0	90-100	85-100	55-70	5-15	0-21	NP - 4
Taylor	 0-9 	Fine sandy loam	 SC-SM, CL-ML, SC	 A-4, A-6 	0	 0 	100	 100 	 70-95 	 25-70 	 22-35 	 6-13
	9-14 	Clay loam, fine sandy loam, loam	CL-ML, CL 	A-6, A-7 	0	0 	100 	100 	90-100 	25-90 	21-47 	6-28
	14-25	Clay	СН	A-7-6	0	0	100	100	90-100	65-100	63-85	43-61
	25-32	Clay, silty	Сн 	A-7-6	0	, 0 	100	100	90-100	65-100	59-81	39-58
	32-60		СH 	A-7-6	0	 0 	100	100	90-100	65-100	54-81 	35-58

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif	ication	Fragi	ments		rcentage sieve n	_	-	 Liquid	 Plas-
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In	ļ	!	ļ	Pct	Pct	ļ	<u> </u>	ļ	ļ	Pct	!
185E:		 	 	 		 	 	 	 	 		
Tradelake	0-9	Fine sandy loam	SC, SC-SM	A-4	0	0-5	95-100	90-100	50-100	35-55	22-37	6-13
	9-13	Fine sandy	SM, SC-SM	A-2-4, A-4	0	0-5	95-100	90-100	75-100	25-55	16-23	2-5
		loam, sandy			İ							
	12 21		 sc-sm	 A-2-4, A-4	0	0-5	 0F 100		 75 100		 18-25	 4-7
	13-21	loam, sandy	SC-SM	A-2-4, A-4	0	0-5	199-100	90-100	/3-IUU	23-30 	18-25	4-7
		loam	 	l I	i i	 	 	l I	l I	l I	 	
	21_25		 SC-SM	 A-2-4, A-4	0	0-5	 05_100	 00_100	 75_100	 25_50	18-25	1-7
	21-23	fine sandy	BC-BM	A-2-4, A-4	0	0-3	33-100	30-100	/3-100 	23-30	10-23	4-/
		loam	 			 	l I	 	l I	 	 	
	25-48	Clay, silty	 CH	 A-7-6	0	0	100	100	 95-100	 80-100	68-88	44-59
	13 10	clay		1			100	100	33 100			11 35
	48-52	Clay, silty	CH	A-7-6	i o	0	100	100	 95-100	80-100	68-88	44-59
		clay		1	i -							
	52-80		SM	A-2-4	i o	0	90-100	85-100	55-70	5-15	0-21	NP-4
		sand		İ					ĺ	ĺ		i
]	!			[[
Taylor	0 - 9	Fine sandy loam	•	A-4, A-6	0	0	100	100	70-95	25-70	22-35	6-13
			sc	!	ļ					!		!
	9-14	Clay loam, fine	CL-ML, CL	A-6, A-7	0	0	100	100	90-100	25-90	21-47	6-28
		sandy loam,										!
		loam										
	14-25		CH	A-7-6	0	0	100				63-85	
	25-32	Clay, silty	CH	A-7-6	0	0	100	100	90-100	65-100	59-81	39-58
		clay										
	32-60	1 2 2 /	CH	A-7-6	0	0	100	100	90-100	65-100	54-81	35-58
		clay		I	I		[ļ.				

Classification Fragments Percentage passing ısity L3 25

Map symbol	 Depth	USDA texture	Classii	Icacion	Flagi	Mencs		sieve n	-	.ig	Liquid	 Plas-
and	202011				>10	3-10	i .					ticity
soil name	İ		Unified	AASHTO		inches	4	10	40	200		index
	In	1	1	1	Pct	Pct	<u> </u>			<u> </u>	Pct	
	İ	İ			İ	ĺ	İ	İ	İ	İ		İ
189A:	į	İ	İ	İ	į	İ	İ	į	į	į	į	İ
Siren	0-9	Loam	CL, CL-ML	A-4, A-6	0	0-5	70-100	65-100	60-100	40-90	27-43	6-17
	9-13	Sandy loam,	ML, SM, CL,	A-2-4, A-6,	0	0-5	70-100	65-100	40-100	20-90	16-32	2-13
		fine sandy	CL-ML, SC,	A-4								
		loam, silt	SC-SM									
		loam, loam										
	13-20	Sandy clay	SC-SM, CL, SC	A-2-4, A-4,	0	0-5	70-100	65-100	40-100	20-55	24-43	9-25
		loam, gravelly		A-6, A-7								
		sandy clay										
		loam, sandy										
		loam, fine										
		sandy loam,		!	!					!		
		loam										
	20-43		CH, CL	A-7-6, A-7	0	0	100	100	95-100	75-95	49-68	29-44
	42.00	clay									140.60	
	43-80		CH, CL	A-7-6, A-7	0	0	100	100	90-100	75-95	49-68	29-44
	 	clay	l I	l I		 	 	 	 	 		
193A:	l I		 	 	l I	l I	l I	l I	 	l I	 	
Minocqua	0-4	Muck	 PT	 A-8	0	 0	100	1 100	100	1 100		 NP
MINOCQua	4-15	1	1	A-2, A-4	0	0-7		75-100			1	NP-13
	4-15	loam, sandy	SM	A-2, A-4 	0	U = 1	00 - 1 00	75-100 	43-100	2 3-30 	0-33	142 - 15
	 	loam, fine	511	l I	ì	 	 	l I	 	l I	İ	l I
	 	sandy loam,	 	l I		 	 	l I	 	i i	i	!
		very fine		İ	i	! 	! 	i I	 	i i	i	!
		sandy loam			i		! 	İ	İ	İ		!
	15-28	Loam, gravelly	CL, ML, SC,	A-1, A-2, A-4	0	0-7	55-100	50-100	30-95	15-80	0-28	NP-9
	İ	sandy loam,	SM	i	i	İ	İ	İ	İ	İ	i	İ
	İ	fine sandy		İ	İ	İ	İ	İ	İ	İ	İ	İ
	İ	loam	İ	İ	i	İ	İ	İ	į	İ	i	İ
	28-60	Stratified sand	GP, GP-GM,	A-1, A-2, A-3	0	0-7	45-100	40-95	15-65	0-15	0-14	NP
	İ	to very	SP, SP-SM	İ	İ	İ	İ	İ	İ	İ	İ	İ
	İ	gravelly	İ	İ	į	İ	İ	İ	į	İ	İ	İ
	İ	coarse sand	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
	1	1	I	I	1	I	ı	1	I	1	I.	ı

Table 22.--Engineering Index Properties--Continued

Map symbol	 Depth	USDA texture	Classi 	fication	Frag	ments		rcentag sieve n	_	_	 Liquid	 Plas-
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In			1	Pct	Pct					Pct	
337A:	 											
Plover	0-10	Fine sandy loam	ML, SM	A-4	0	0	95-100	90-100	65-90	35-50	0-20	NP-4
	10-13 	loam, sandy loam, silt	CL-ML, ML, SC-SM, SM	A-4 	0	0	95-100	90-100	70-100 	40-80	0-20	NP - 5
	 13-18 	loam Fine sandy loam, sandy loam, silt loam	 CL-ML, ML, SC-SM, SM 	 A-4 	 0 	 0 	 95-100 	 90-100 	 70-100 	 40-80 	0-20	 NP-5
	 18-32 		CL-ML, ML, SC-SM, SM	A-4 	0	 0 	 95-100 	 90-100 	 65-95 	 40-75 	0-25	 NP-7
	32-60	Stratified fine sand to silt	CL-ML, ML,	 A-4 	0	0	 95-100 	 90-100 	60-95	35-75	0-25	NP-7
368B:				1								
Mahtomedi	0-5	Loamy sand	SC-SM, SM	A-2	0	0-3	85-100	75-100	40-75	20-30	0-28	NP-10
	5-8 	Sand, coarse sand, loamy coarse sand	SP-SM, SM 	A-2, A-3 	0	0-3	85-100 	75-100 	35-75 	5-30	0-23	NP - 6
	8-15	Gravelly coarse sand, coarse sand, gravelly sand, sand	İ	A-1 	0	0-15	60-95 	50-90	25-65	2-15	0-23	NP - 6
	 15-30 	sand, sand Gravelly sand, coarse sand, sand	 SM, SP-SM 	A-1, A-2, A-	3 0	 0-15 	 60-95 	 50-90 	 25-65 	 2-15 	0-23	 NP-6
	30-60	Gravelly sand, coarse sand	SM, SP-SM	A-3, A-1, A-	2 0	0-15 	 55-95 	 50-90 	25-65	0-15	0-23	NP - 6

Classification Fragments Percentage passing aslty

Map symbol	 Depth	USDA texture		10401011	1149	iii.CII CD		sieve n	umber	9	Liquid	 Plas-
and	i -	j			>10	3-10	i				limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct 	 	[Pct 	
368B:												
Cress	0-3		SC, SM	A-2-4, A-4	0	0-5		80-100			0-28	
	3-15 	Sandy loam, fine sandy loam	SC, SM 	A-2-4, A-4 	0 	0-5 	85-100 	80-100 	55-80 	25-45	0-28 	NP-9
	15-31 	Loamy sand, coarse sand, gravelly sand, very gravelly loamy sand	SM, SP-SM 	A-3 	0 	0-5 	55-100 	50-95 	20-75 	0-30 	0-21 	NP - 4
	31-36 	Gravelly loamy sand, coarse sand, gravelly sand, very gravelly loamy sand	 	A-3 	0 	0-5 	55-100 	50-100 	20-75 	0-30 	0-21 	NP - 4
	36-60	Stratified sand to very gravelly coarse sand	GP, GP-GM, SP, SP-SM 	A-1, A-2, A-3 	0 	0-5 	30-100 	 25-95 	 15-65 	0-15	0-14 	NP
368C:									İ	İ		
Mahtomedi	0-5		SC-SM, SM	A-2	0			75-100			,	NP-10
	5-8 	Sand, coarse sand, loamy coarse sand	SP-SM, SM 	A-2, A-3 	0 	0-3 	85-100 	75-100 	35-75 	5-30 	0-23 	NP - 6
	8-15 	Gravelly coarse sand, coarse sand, gravelly sand, sand	İ	A-1 	0 	0-15 	60-95 	50-90 	25-65 	2-15 	0-23 	NP - 6
	15-30 	Gravelly sand, coarse sand, sand	SM, SP-SM 	A-1, A-2, A-3 	0 	0-15 	60-95 	50-90 	25-65 	2-15 	0-23 	NP - 6
	30-60	Gravelly sand, coarse sand	SM, SP-SM 	A-3, A-1, A-2 	0	0-15 	55-95 	50-90	25-65 	0-15	0-23	NP - 6
	1	I	I	1	1	1	1	1	1	1	1	1

Table 22.--Engineering Index Properties--Continued

			Classi	Eication	Fragi	ments		rcentag	-	-		
Map symbol	Depth	USDA texture		1		1		sieve n	umber		Liquid	
and soil name	 	1	Unified	AASHTO	>10	3-10	 4	10	40	200	limit	ticity
SOII Halle	l In	<u> </u>	Unitied	AASHIO	Pct	Pct	4	1 10	40	1 200	Pct	Index
	111		 		PCL	PCL		 	 		PCL	
368C:	 		 		 	 	i	 		i		
Cress	0-3	Sandy loam	SC, SM	A-2-4, A-4	0	0-5	85-100	80-100	55-80	25-45	0-28	NP-9
	3-15	Sandy loam,	SC, SM	A-2-4, A-4	0	0-5	85-100	80-100	55-80	25-45	0-28	NP-9
		fine sandy										
		loam										
	15-31	Loamy sand,	SM, SP-SM	A-3	0	0-5	55-100	50-95	20-75	0-30	0-21	NP-4
		coarse sand,										
	 	gravelly sand, very gravelly				 						
	 	loamy sand	 		l I	l I		l I				
	 31-36	Gravelly loamy	SM. SP-SM	A-3	0	0-5	 55-100	 50-100	20-75	0-30	0-21	 NP-4
	32 33	sand, coarse									"	
	İ	sand, gravelly	İ		İ	İ	i	İ	i	i	i	i
	j	sand, very	İ	İ	į	j	į	İ	į	İ	į	į
		gravelly loamy										
		sand										
	36-60	Stratified sand		A-1, A-2, A-3	0	0-5	30-100	25-95	15-65	0-15	0-14	NP
		to very	SP, SP-SM									
	 	gravelly coarse sand				 						
	 	coarse sand	 		l I	 	 	 	 	I		
368D:	! 											
Mahtomedi	0-5	Loamy sand	SC-SM, SM	A-2	0	0-3	85-100	75-100	40-75	20-30	0-28	NP-10
	5-8	Sand, coarse	SP-SM, SM	A-2, A-3	0	0-3	85-100	75-100	35-75	5-30	0-23	NP-6
		sand, loamy										
		coarse sand										
	8-15	Gravelly coarse	SM, SP-SM	A-1	0	0-15	60-95	50-90	25-65	2-15	0-23	NP-6
		sand, coarse										
	 -	sand, gravelly sand	l I		 	 		 				
	 15-30	Gravelly sand,	SM, SP-SM	 A-1, A-2, A-3	 0	 0-15	 60-95	 50-90	 25-65	2-15	0-23	 ND-6
	13-30 	coarse sand,	SM, SF-SM	A-1, A-2, A-3	0	0-13	00-33	30-30	23-03	2-13	0-23	NF - 0
		sand					i		i	1		
	30-60	Gravelly sand,	SM, SP-SM	A-3, A-1, A-2	0	0-15	55-95	50-90	25-65	0-15	0-23	NP-6
		coarse sand	İ	j	į	İ	į	į	į	i	į	į
	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ

0-15 | 55-95 | 50-90 | 25-65 | 0-15 | 0-23 | NP-6

Map symbol	 Depth	USDA texture	Classi	fication	Frag	ments		rcentag sieve n	_	_	 Liquid	 Plas-
and	ĺ	İ			>10	3-10	İ				limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct					Pct	
368D:	 				İ			l I		l		
Cress	0-3	Sandy loam	SC, SM	A-2-4, A-4	0	0-5	85-100	80-100	55-80	25-45	0-28	NP-9
	3-15	Sandy loam,	SC, SM	A-2-4, A-4	0	0-5	85-100	80-100	55-80	25-45	0-28	NP-9
	 	loam		l I				l I	 	l I		
	15-31	Loamy sand,	SM, SP-SM	A-3	0	0-5	55-100	50-95	20-75	0-30	0-21	NP-4
		coarse sand,										
	 	gravelly sand, very gravelly						 				
	İ	loamy sand			İ			İ	i	İ		İ
	31-36	Gravelly loamy	SM, SP-SM	A-3	0	0-5	55-100	50-100	20-75	0-30	0-21	NP-4
	 	sand, coarse sand, gravelly										
	 	sand, graverry			İ			 	İ	l I		
	į	gravelly loamy	·į	j	į	į	į	į	İ	į	j	į
		sand										
	36-60	Stratified sand		A-1, A-2, A-3	0	0-5	30-100	25-95	15-65	0-15	0-14	NP
	l I	to very gravelly	SP, SP-SM			 		l I	 	l I		l I
	İ	coarse sand										
368E:	 							 	 			
Mahtomedi	0-5	Loamy sand	SC-SM, SM	A-2	0	0-3	85-100	75-100	40-75	20-30	0-28	NP-10
	5-8	Sand, coarse	SP-SM, SM	A-2, A-3	0	0-3	85-100	75-100	35-75	5-30	0-23	NP-6
		sand, loamy							!	ļ		ļ
	 0_15	coarse sand Gravelly coarse	CM CD_CM	 A-1	 0	0-15	 60-95	 50-90	 25_65	2-15	0-23	ND_6
	0-13	sand, coarse	SM, SF-SM		0	0-13		30-90	23-03	2-13	0-23	NF-0
	İ	sand, gravelly		į	İ	İ	İ	İ	i	i	İ	i
	ĺ	sand, sand	İ	j	İ	İ	İ	İ	İ	İ	İ	İ
	15-30	Gravelly sand,	SM, SP-SM	A-1, A-2, A-3	0	0-15	60-95	50-90	25-65	2-15	0-23	NP-6

|A-3, A-1, A-2| 0

15-30 | Gravelly sand, | SM, SP-SM | coarse sand, | sand

30-60 | Gravelly sand, | SM, SP-SM

coarse sand

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif	ication	Fragi	ments		rcentage sieve n	_	_	 Liquid	 Plas-
and					>10	3-10	l				limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct					Pct	
368E:			 				 	 	 			
Cress	0-3	Sandy loam	SC, SM	A-2-4, A-4	0	0-5	85-100	80-100	55-80	25-45	0-28	NP-9
	3-15 	Sandy loam, fine sandy loam	SC, SM	A-2-4, A-4	0 	0-5 	 85-100 	80-100 	 55-80 	25-45	0-28	NP - 9
	15-31 	Loamy sand, coarse sand, gravelly sand, very gravelly loamy sand	SM, SP-SM 	A-3 	0 	0-5 	55-100 	50-95 	20-75 	0-30	0-21 	NP - 4
	31-36	Gravelly loamy sand, coarse sand, gravelly sand, very gravelly loamy sand	İ	A-3 	 	 0-5 	 55-100 	 50-100 	 20-75 	0-30	0-21 	 NP - 4
	36-60	Stratified sand to very gravelly coarse sand	GP, GP-GM, SP, SP-SM 	A-1, A-2, A-3 	0	0-5 	30-100 	25-95 	15-65 	0-15 	0-14	NP
380B:							 		 			
Cress	0-3	Sandy loam	SC, SM	A-2-4, A-4	0	0-5	85-100	80-100	55-80	25-45	0-28	NP-9
	3-15 	Sandy loam, fine sandy loam	SC, SM	A-2-4, A-4 	0 	0-5	85-100 	80-100 	55-80 	25-45	0-28	NP - 9
	15-31 	Loamy sand, coarse sand, gravelly sand, very gravelly loamy sand	SM, SP-SM 	A-3 	0 	0-5 	55-100 	50-95 	20-75 	0-30	0-21 	NP - 4
	31-36	Gravelly loamy sand, coarse sand, gravelly sand, very gravelly loamy sand	 	A-3 	0 	0-5 	55-100 	50-100 	20-75 	0-30	0-21 	NP - 4
	36-60	Stratified sand to very gravelly coarse sand	GP, GP-GM, SP, SP-SM 	A-1, A-2, A-3 	0 	0-5 	30-100	25-95 	15-65 	0-15	0-14	NP

Map symbol and soil name	 Depth In	USDA texture	Classification		Fragments		Percentage passing sieve number				Liquid	D100
				1	>10 inches	es inches	sieve number					Plas- ticity
			 Unified	AASHTO			 4	10	40	200		index
				1	Pct		l -				Pct	
				İ	i	İ	İ	İ	i	i	İ	İ
380B:			ĺ	ĺ		ĺ	ĺ	ĺ	ĺ	İ	İ	
Rosholt 		Sandy loam	SM	A-2, A-4	0	0-3		75-100			0-21	
	8-10	Sandy loam,	SC-SM, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
		fine sandy		ļ				!	!			
		loam, gravelly		1								
	10 14	loamy sand	SC-SM, SM		0	 0-3	 FF 100	 50-100		15 40	0-23	 ND_C
	10-14 	Sandy loam, fine sandy	SC-SM, SM	A-1, A-2, A-4	0	U-3 	 22-T00	 20-100	35-75	15-40	0-23	NP-6
		loam, gravelly	 	I I		 	 	l I	 			
		loamy sand		ì		! 	 	<u> </u>	i	i		!
	14-28	Sandy loam,	SC, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-80	20-45	0-26	NP-8
		fine sandy	İ	Ì	İ	j	į	İ	į	İ	į	j
		loam, gravelly										
		loam										
	28-34	Gravelly loamy		A-1, A-2, A-3	0	0-25	30-100	25-100	20-80	5-25	0-23	NP-6
		sand, very	SM, SP-SM									
		gravelly				 						
		coarse sand,	 	I	l I	 	 	l I				l I
	 34-60	Stratified sand	GP. GP-GM.	A-1, A-2, A-3	0	0-25	 30-100	 25-100	 15-65	0-15	0-14	∣ ∣ NP
	31 00	to very	SP, SP-SM	1 2, 1 2, 1 3		0 23	30 100	23 200	13 03	0 13	0 11	-112
		gravelly		ì	İ		İ	i	i	i	i	i I
		coarse sand		İ	i	İ	İ	İ	i	i	İ	İ
				į	İ	ĺ	ĺ	ĺ	İ	İ	İ	ĺ
380C:												
Cress			SC, SM	A-2-4, A-4	0			80-100			1	NP-9
	3-15	Sandy loam,	SC, SM	A-2-4, A-4	0	0-5	85-100	80-100	55-80	25-45	0-28	NP-9
		fine sandy		1								
	15 21	loam Loamy sand,	SM, SP-SM	 A-3	 0	 0-5	 EE 100	 50-95	120 75	0-30	0-21	INTO 4
	13-31	coarse sand,	SM, SP-SM	A-3	0	U-5 	33-100	50-95	20-75	0-30	0-21	NP - 4
		gravelly sand,	 	i	İ	 	 	 	i	i		!
İ		very gravelly		i	İ	İ	İ	İ	i	i	İ	İ
		loamy sand	İ	i	İ	į	į	į	i	i	į	İ
	31-36	Gravelly loamy	SM, SP-SM	A-3	0	0-5	55-100	50-100	20-75	0-30	0-21	NP-4
		sand, coarse										
		sand, gravelly		Ţ								
		sand, very		ļ				!	!			
		gravelly loamy		1								
	36 60	sand	CD CD CW		 0	 0-5			115 65	0-15	0-14	 NP
	30-00 	Stratified sand to very	SP, SP-SM	A-1, A-2, A-3	0	U-5 	 30-100	43-95 	172-02	0-15	0-14	 NE
		gravelly	SF, SF-SM			 	l I	I I				
		coarse sand			İ	 	İ	İ	i	1		l I
			i I		i	İ	i	i	i	1	1	i

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classi	fication	Fragi	ments		rcentag sieve n	_	-	Liquid	 Plas
and		!	!		>10	3-10	ļ				limit	
soil name			Unified	AASHTO		inches	4	10	40	200		index
	In				Pct	Pct					Pct	
380C:			 	i	! 	 	 	İ				
Rosholt	0 - 8	Sandy loam	SM	A-2, A-4	0	0-3	80-100	75-100	50-75	25-40	0-21	NP-4
J	8-10	Sandy loam,	SC-SM, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
ļ		fine sandy										
ļ		loam, gravelly										
		loamy sand						!	!			!
	10-14		SC-SM, SM	A-1, A-2, A-4	0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
		fine sandy										
		loam, gravelly loamy sand	 		 	 -	 		 			
	14-29		 SC, SM	A-1, A-2, A-4	 0	 0-3	 55_100	 50_100	 35-00	20-45	0-26	 NTD _ 0
I	14-20	fine sandy	SC, SM	A-1, A-2, A-1	U	U-3 	1	120-100	33-80	20-45	0-20	MF - O
		loam, gravelly	! [! 	 	 	 	 	i		i
ļ		loam	! 		! 	! 	 			1		i
į	28-34	Gravelly loamy	GM, GP-GM,	A-1, A-2, A-3	0	0-25	30-100	25-100	20-80	5-25	0-23	NP-6
į		sand, very	SM, SP-SM	i	į	İ	į	į	į	İ	İ	İ
j		gravelly		j	ĺ	ĺ	ĺ	ĺ	ĺ	İ	İ	İ
ļ		coarse sand,										
		sand										
	34-60	Stratified sand	•	A-1, A-2, A-3	0	0-25	30-100	25-100	15-65	0-15	0-14	NP
		to very	SP, SP-SM					!	!	!		!
		gravelly										
		coarse sand	 		 	 	l I	l I	 			
380D:				ì		 						
Cress	0-3	Sandy loam	SC, SM	A-2-4, A-4	0	0-5	85-100	80-100	55-80	25-45	0-28	NP-9
	3-15	Sandy loam,	SC, SM	A-2-4, A-4	0	0-5	85-100	80-100	55-80	25-45	0-28	NP-9
		fine sandy										
		loam						!	!			!
	15-31	Loamy sand,	SM, SP-SM	A-3	0	0-5	55-100	50-95	20-75	0-30	0-21	NP-4
		coarse sand,				 						
ļ		gravelly sand, very gravelly	l I		 	 	 	 	 			
I		loamy sand	 		 	 	 	 	 			
ļ	31-36	Gravelly loamy	SM. SP-SM	A-3	0	0-5	 55-100	50-100	20-75	0-30	0-21	NP-4
		sand, coarse			İ			İ	i	i		i
į		sand, gravelly		İ	İ	İ	İ	İ	İ	i	i	i
j		sand, very		j	ĺ	ĺ	ĺ	ĺ	ĺ	İ	İ	İ
j		gravelly loamy										
ļ		sand										
ļ	36-60	Stratified sand	•	A-1, A-2, A-3	0	0-5	30-100	25-95	15-65	0-15	0-14	NP
		to very	SP, SP-SM		ļ					1		!
I		gravelly coarse sand		!	!			!	!	!	!	
1												

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Map symbol	 Depth	USDA texture	Classi	fication	n 	İ	ments		rcentag sieve n	_	-	 Liquid	
and soil name	 -		Unified	33	SHTO	>10	3-10	 4	10	40	200	limit	ticity index
SOII Hame	l In	1	OHITIEG		5110	Pct	Pct	* 	1	40	200	Pct	l
				i				İ	İ	İ	İ		İ
380D:		İ	İ	Ì		ĺ	ĺ	ĺ	ĺ	ĺ	İ	İ	ĺ
Rosholt	0-8	Sandy loam	SM	A-2,	A-4	0	0-3	80-100	75-100	50-75	25-40	0-21	
	8-10	Sandy loam,	SC-SM, SM	A-1,	A-2, A-4	0	0-3	55-100	50-100	35-75	15-40	0-23	NP-6
		fine sandy											
	 	loam, gravelly loamy sand		ļ		 							
	 10_14	Sandy loam,	SC-SM, SM	 x_1 :	A-2, A-4	 0	0-3	 55_100	 50-100	 25_75	15-40	0-23	 ND - 6
	10-14	fine sandy	BC-BM, BM		A-2, A-1	0	0-3	33-100	30-100	33-73	13-40	0-23	NF - 0
	! 	loam, gravelly	i	i		! 	 		<u> </u>				İ
	İ	loamy sand	İ	İ		İ	i	İ	İ	İ	İ	İ	İ
	14-28	Sandy loam,	SC, SM	A-1,	A-2, A-4	0	0-3	55-100	50-100	35-80	20-45	0-26	NP-8
		fine sandy											
		loam, gravelly		!					[!		
		loam											
	28-34	Gravelly loamy sand, very	GM, GP-GM,	A-1, 1	A-2, A-3	0	0-25	30-100	25-100	20-80	5-25	0-23	NP - 6
	 	gravelly	SM, SP-SM	l I		l I	 	 	 	l I		 	l I
	 	coarse sand,	 	i		l I	 	 	İ	l I	i	 	l I
	! 	sand	i	i		İ	i	İ	i	i	ì	İ	i
	34-60	Stratified sand	GP, GP-GM,	A-1,	A-2, A-3	0	0-25	30-100	25-100	15-65	0-15	0-14	NP
		to very	SP, SP-SM	Ì		ĺ	ĺ	ĺ	ĺ	ĺ	İ	İ	ĺ
		gravelly											
		coarse sand		ļ									
383B:	 		 			 	 	l I	l I	 	l I		
Mahtomedi	0-5	Loamy sand	SC-SM, SM	A-2		0	0-3	85-100	75-100	40-75	20-30	0-28	 NP-10
	5-8	Sand, coarse	SP-SM, SM	A-2,	A-3	0	0-3	85-100	75-100	35-75	5-30	0-23	NP-6
		sand, loamy											
		coarse sand											
	8-15	Gravelly coarse	SM, SP-SM	A-1		0	0-15	60-95	50-90	25-65	2-15	0-23	NP-6
		sand, coarse											
	 	sand, gravelly sand, sand		ļ		 							
	 15_30	Gravelly sand,	 cw	 	A-2, A-3	 0	 0-15	 60-95	 50-90	 25-65	2-15	0-23	 ND - 6
	15-50 	coarse sand,	BH, BI-BH		n-2, n-3	i o	0-15	00-55	30-30	23-03	2-13	0-25	
	! 	sand	i	i		İ	i	İ	i	i	ì	İ	i
	30-60	Gravelly sand,	SM, SP-SM	A-3,	A-1, A-2	0	0-15	55-95	50-90	25-65	0-15	0-23	NP-6
		coarse sand											
									[

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classi	fication	Frag	ments		rcentag sieve n	_	-	 Liquid	 Plas-
and		İ			>10	3-10	İ				limit	ticity
soil name	İ	İ	Unified	AASHTO	inches	inches	4	10	40	200	Ï	index
	In			-	Pct	Pct					Pct	
383C:	 						 	 	 	1		
Mahtomedi	0-5	Loamy sand	SC-SM, SM	A-2	0	0-3	85-100	75-100	40-75	20-30	0-28	NP-10
	5-8	Sand, coarse sand, loamy	SP-SM, SM	A-2, A-3	0	0-3	85-100	75-100	35-75	5-30	0-23	NP-6
	 8-15 	coarse sand Gravelly coarse sand, coarse sand, gravelly sand, sand	İ	 A-1 	0	 0-15 	 60-95 	 50-90 	 25-65 	2-15	0-23	 NP-6
	 15-30 	Gravelly sand, coarse sand, sand	 SM, SP-SM 	 A-1, A-2, A-3	0	0-15	 60-95 	 50-90 	 25-65 	2-15	0-23	 NP - 6
	30-60		SM, SP-SM	A-3, A-1, A-2	0	0-15	55-95	50-90	25-65	0-15	0-23	NP-6
383D:												
Mahtomedi	0-5	Loamy sand	SC-SM, SM	A-2	0	0-3	85-100	75-100	40-75	20-30	0-28	NP-10
	5-8 	Sand, coarse sand, loamy coarse sand	SP-SM, SM 	A-2, A-3 	0 	0-3 	85-100 	75-100 	35-75 	5-30 	0-23	NP - 6
	8-15 	Gravelly coarse sand, coarse sand, gravelly sand, sand	j	A-1 	0	0-15	60-95	50-90	25-65	2-15	0-23	NP - 6
	15-30 	Gravelly sand, coarse sand, sand	SM, SP-SM	A-1, A-2, A-3	0	0-15 	 60-95 	 50-90 	 25-65 	2-15	0-23	NP-6
	30-60	Gravelly sand, coarse sand	SM, SP-SM	A-3, A-1, A-2	0	0-15	55-95 	50-90 	25-65	0-15	0-23	NP - 6

Map symbol	 Depth	 USDA texture	Classif	ication	.ii	ments		_	e passi umber	_	 Liquid	
and			!	!	>10	3-10					limit	
soil name		<u> </u>	Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct		ļ	!	ļ	Pct	
392C:												
Rockmarsh	 0-1	Cobbly mucky	 PT	 A-8	0 15	 15-50	100	100				
ROCKMarsh	0-1	peat	1	A-0	0-15	122-20	1 100	1 100				
	 1-8	Very cobbly	CL, CL-ML, ML	 	0-15	15-50	25-65	20-60	20-60	115-55	10-20	 2-17
	1-0	silt loam	CD, CD-MD, MD	A-4, A- 0	0-13	1	23-03	20-00	20-00	122-22	10-33	2-17
	8-23	Extremely	GC-GM, GM,	A-2-4, A-1-a	0-15	15-50	25-65	20-60	15-45	1-20	0-24	NP-6
	0 20	gravelly loamy	•		0 20	-5 50					0 = -	
	 	coarse sand,		! 	i		i		i			İ
	 	very gravelly		! 	i		i		i			İ
	İ	loamy coarse		<u> </u>	i	İ	i	i	i	i		i
	İ	sand, very			i	İ	İ	i	i	i	i	i
	İ	gravelly loamy	İ	İ	i	İ	İ	i	i	i	i	İ
	İ	sand,	İ	İ	i	İ	İ	i	i	i	i	i
	į	extremely	İ	İ	į	İ	İ	i	i	į	i	į
	į	cobbly loamy	İ	İ	İ	İ	İ	İ	İ	İ	İ	į
		sand, very										
		cobbly loamy										
		coarse sand										
	23-46	Extremely	SC, SC-SM	A-2	0-15	15-50	25-65	20-60	15-55	5-35	20-43	6-25
		gravelly sandy										
		clay loam,										
		very cobbly										
		sandy loam,										
		extremely					ļ	!	!	!		!
		cobbly coarse		!	!		ļ	!	!	!	!	!
		sandy loam,										
		very gravelly										
		sandy clay										
		loam				115 50	115 05	110.00		1.70	116.20	
	46-80	Extremely	CL, CL-ML,	A-6, A-4, A-2-4	0-15	15-50	15-95	10-90	5-85	1-70	16-30	2-13
	 	cobbly sandy loam,	ML, SC,	A-2-4		 	l I					
	 	extremely	SC-SM, SM	 		 	l I					
	 	gravelly sandy	I	 		 	l I		1			
	 	loam, very	I	 	1	 	 					I I
	 	gravelly loam,	I	 	1	 	 					I I
	 	extremely		 	İ	 	 	i	1	1		i i
	 	gravelly fine		! 	i	 	i i	ì	i	ì		i
	İ	sandy loam,		İ	i			İ	i	i		İ
	İ	very cobbly		İ	i			i	i	i		
	İ	fine sandy	i	İ	i		i	i	i	i	i	İ
	İ	loam	i	İ	İ	İ	İ	ì	i	ì	i	į
	İ		i	į	İ	į	į	į	į	İ	į	į

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	 Depth	USDA texture	 	Classi	£	ication	.ii	ments		rcentag sieve n	_	ng	 Liquid	
and soil name			ļ ,	Unified		AASHTO	>10 inches	3-10 inches	 4	10	40	200	limit	ticity
SOII Hame	l In	<u> </u>	<u> </u>	onitied		AASHIO	Pct	Pct	"	10	40	200	Pct	Index
										İ	İ			İ
392C: Dairyland	0-1	Moderately	PT			A-8	0	0	100	100		 		
	 1-7	decomposed plant material Cobbly sandy	 SMI.	SC-SM		 A-2-4	0-7	 15-50	 15-60	 10-55	 5-35	 1-20	 18-35	 2-13
	İ	loam	j			İ	İ	İ	İ	İ	İ	İ		İ
	7-14 	loamy sand, extremely gravelly loamy coarse sand, extremely cobbly loamy sand, very cobbly loamy	 	SC-SM, S	BC	A-2-4, A-1-b	0-7 	15-50 	15-60 	10-55 	5-30 	1-15 	0-28 	NP - 10
	14-36	coarse sand Very gravelly loamy sand, very cobbly loamy sand, extremely cobbly loamy coarse sand, extremely	 GM 			A-2-4	 0-7 	 15-50 	 15-60 	 10-55 	 5-30 	 1-15 	 0-26 	 NP-10
	 36-49	gravelly loamy sand, very cobbly loamy coarse sand Extremely gravelly loamy sand, very	 GM			 A-2-4	 0-7	 15-50 	 15-60 	 10-55	 5-30	 1-15 	 0-26	 NP-10
		cobbly loamy sand, extremely cobbly loamy coarse sand, very gravelly loamy sand, very cobbly loamy coarse sand	 				 				 	 		
	49-80	Sandy loam, cobbly fine sandy loam, extremely gravelly loam, extremely cobbly sandy clay loam, very gravelly clay loam	ML	SC-SM, , SM, -ML, CL		A-2-4, A-6, A-4	0-15 	7-30 	25-95	20-90 	15-80 	5-50 	16-39 	2-21

Map symbol	Depth	USDA texture	Classif:	ication	_i	ments		rcentage sieve n	_	ng	Liquid	
and soil name		 	Unified	AASHTO	>10	3-10 inches	 4	10	40	200	limit	ticity index
SOII Halle	In	1		AASHIO	Pct	Pct	* 	10	40	200	Pct	Index
į		İ	İ	İ	į	İ	İ	İ	İ	İ	İ	İ
392C:									 			
Makwa 	0-8 8-16	loam, very cobbly silt loam, extremely gravelly sandy loam, very	 	A-8 A-2, A-4 	7-25 7-16 		80-100 21-67 			 12-52 	25-48 	 2-9
		gravelly sandy loam, extremely cobbly silt	 	 		 	 	 	 	 	 	
	16-43	Stratified extremely gravelly coarse sandy loam to extremely gravelly sandy	GC, GM, GC-GM 	A-1, A-2-4 	6-15	13-26 	11-44 	8-42 	 	 	17-36 	3-17
		clay loam Extremely gravelly sandy loam, extremely clay loam, extremely clay loam, extremely cobbly sandy loam, extremely loam, extremely sandy clay loam Stratified silt loam to silty clay		A-1, A-2-6, A-2-4	6-15	 12-36 	 13-61 	9-60	7-57 	 	17-40 	3-21
396B:		[[[
Friendship	0 - 4	Sand	SM	İ	0	0	95-100	90-100	60-75	5-15	0-23	NP-3
-	4-29	Sand	SM	A-2, A-3	0	0	95-100	90-100	60-75	5-15	0-20	NP-4
İ	29-60	Sand	SM	A-2, A-3	0	0	95-100	90-100	60-75	5-15	0-18	NP-1
Wurtsmith	0-6	Sand	 sm	 A-2, A-3		 0	 05_100	 75-100	 50-70	 5-15	0-14	 NP
WOILESHIELII		Sand	1	A-2, A-3	0	0 0		75-100		5-15	0-14	NP
	33-60	1		A-2, A-3 A-2, A-3	0	0 0		75-100		5-15	0-14	NP
	33-00	balla	on	A-4, A-3	0	į U	 02-T00	1/2-100	30-70	1 2-12	0-14	NP

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classi	fication	Fragi	ments		rcentage	_	-	 Liquid	 Plas-
and	· -				>10	3-10	İ					ticity
soil name	i		Unified	AASHTO	inches	inches	4	10	40	200		index
	In	!		İ	Pct	Pct	İ		İ	İ	Pct	<u> </u>
396B:						 	 	 	 			
Grayling	0-3	Sand	SM	A-2, A-3	0	0	95-100	90-100	60-75	5-15	0-14	NP
	3-15	Sand	SM	A-2, A-3	0	0	95-100	90-100	60-75	5-15	0-14	NP
	15-23	Sand	SM	A-2, A-3	0	0	95-100	90-100	60-75	5-15	0-14	NP
	23-60	Sand	SM	A-3, A-2	0	0	95-100	90-100	60-75	5-15	0-14	NP
397A:	 				1	 	 	 	 			
Perchlake	0-9	Loamy fine sand	SM	A-2-4	0	0	90-100	85-100	75-95	20-30	0-17	NP-5
	9-18	Fine sand,	SM, SP-SM	A-2-4	0	0	90-100	85-100	75-95	10-15	0-17	NP-5
	İ	sand, loamy	İ	İ	i	į	į	i	į	i	į	İ
	İ	fine sand,	İ	i	i	i	į	i	į	i	i	i
	İ	loamy sand	İ	i	i	i	į	i	į	i	i	i
	18-42	Sand, loamy	SM, SP-SM	A-2-4	0	0	90-100	85-100	40-55	10-20	0-17	NP-5
	İ	sand, loamy	İ	İ	i	į	į	i	į	i	į	i
	İ	fine sand,		Ì	j	į	į	İ	į	İ	İ	İ
	İ	fine sand		Ì	j	į	į	İ	į	İ	İ	İ
	42-46	Fine sandy	SC-SM, SM	A-4	0	0	90-100	85-100	70-90	35-45	0-26	NP-7
		loam, sandy		Ì	ĺ	İ	ĺ	İ	ĺ	İ	İ	İ
		loam, loam		Ì	ĺ	İ	ĺ	İ	ĺ	İ	İ	İ
	46-60	Sand, fine sand	SM	A-2-4, A-3	0	0	90-100	85-100	55-70	5-15	0-17	NP-5
399B:							 		 			
Grayling	0-3	Sand	SM	A-2, A-3	0	0	95-100	90-100	60-75	5-15	0-14	NP
	3-15	Sand	SM	A-2, A-3	0	0	95-100	90-100	60-75	5-15	0-14	NP
	15-23	Sand	SM	A-2, A-3	0	0	95-100	90-100	60-75	5-15	0-14	NP
	23-60	Sand	SM	A-3, A-2	0	0	95-100	90-100	60-75	5-15	0-14	NP
399C:							 		 			
Grayling	0-3	Sand	SM	A-2, A-3	0	0	95-100	90-100	60-75	5-15	0-14	NP
	3-15	Sand	SM	A-2, A-3	0	0	95-100	90-100	60-75	5-15	0-14	NP
	15-23	Sand	SM	A-2, A-3	0	0	95-100	90-100	60-75	5-15	0-14	NP
	23-60	Sand	SM	A-3, A-2	0	0	95-100	90-100	60-75	5-15	0-14	NP
399D:			 		1							
Grayling	0-3	Sand	SM	A-2, A-3	0	0	95-100	90-100	60-75	5-15	0-14	NP
	3-15	Sand	SM	A-2, A-3	0	0	95-100	90-100	60-75	5-15	0-14	NP
	15-23	Sand	SM	A-2, A-3	0	0	95-100	90-100	60-75	5-15	0-14	NP
	23-60	Sand	SM	A-3, A-2	0	0	95-100	90-100	60-75	5-15	0-14	NP
406A:			 				 	 	 			
Loxley	0-13	Mucky peat	PT	A-8	0	0	100	100	100	100		NP
	13-60	Muck	PT	A-8	0	0	100	100	100	100		NP
407A:	 				l I		 	 	 			
Seelyeville	 0-80	Muck	 PT	 A-8	0	0	100	100	100	100		 NP
2001/041116	0-00		== = 			İ	100		100			

Classification Fragments Percentage passing Map symbol Depth USDA texture sieve number --|Liquid| Plaslimit | ticity and >10 3-10 Unified soil name AASHTO inches inches 4 200 index In Pct Pct 407A: Markey-----0-32 Muck PT A-8 0 0 100 100 SP-SM, SM 32-60 Sand, fine A-1, A-2, A-3 0 0 |70-100|50-100|30-65 5-15 0-23 NP-6 sand, loamy sand, gravelly sand 410A: Seelyeville----0-80 Muck PT A-8 0 0 100 100 100 100 0 - 0 NP Cathro-----0-28 Muck PT A-8 0 0 100 100 28-49 Loam, silty CL, CL-ML, A-4, A-6 0 0-5 80-100 | 65-100 | 60-100 | 35-90 | 20-40 6-21 SC, SC-SM clay loam, sandy loam 49-60 | Sandy loam, |80-100|65-100|60-100|35-90 |20-40 CL, CL-ML, 6-21 A-4, A-6 0 silty clay SC, SC-SM loam, loam 419A: Seelyeville----0-80 Muck PT A-8 0 0 100 100 100 100 NP ---Cathro-----0-28 Muck PT A-8 0 0 100 100 ---Loam, silty CL, CL-ML, A-4, A-6 0 0-5 |80-100|65-100|60-100|35-90 |20-40 6-21 clay loam, SC, SC-SM sandy loam 49-60 | Sandy loam, CL, CL-ML, A-4, A-6 0 |80-100|65-100|60-100|35-90 |20-40 6-21 silty clay SC, SC-SM loam, loam

A-8

A-1, A-2, A-3

0

0

0

0

100

100

|70-100|50-100|30-65 | 5-15 |

0-23 NP-6

PT

SP-SM, SM

Markey----- 0-32 | Muck

32-60 | Sand, fine

sand

sand, loamy
sand, gravelly

Table 22.--Engineering Index Properties--Continued

		[Classif	ication	Fragi	ments		_	e passi	ng		
Map symbol	Depth	USDA texture					8	sieve n	umber		Liquid	
and				!	>10	3-10					limit	-
soil name	<u> </u>		Unified	AASHTO		inches	4	10	40	200		index
	In				Pct	Pct					Pct	
421A:					 		l I	 	 	l İ		
Dora	0-12	Mucky peat	PT	A-8	0	0	100	100		i		
	12-32	Muck	PT	A-8	0	0	100	100				
	32-36	Mucky silty	MH	A-7	0	0	100	100	95-100	85-95	70-102	18-26
		clay loam										
	36-42	Silty clay	CL, CH	A-6	0	0	100	100	90-100	70-95	37-57	21-36
		loam, silty										
		clay, clay,										
		clay loam										
	42-60	Silty clay,	CL, CH	A-6	0	0	100	100	90-100	70-95	37-57	21-36
		silty clay										
		loam, clay,										
		clay loam										
Markey	0-32	Muck	 PT	A-8	0	0	100	100	 	 		
	32-60	Sand, fine	SC-SM, SM	A-1, A-2, A-3	0	0	70-100	50-100	30-65	5-15	0-23	NP-6
		sand, loamy										
		sand, gravelly										
		sand										
Seelyeville	0-80	Muck	 PT	 A-8	 0	0	100	100	100	100		 NP
422A:					 			 				
Seelyeville	 0-80	Muck	 PT	 A-8	 0	0	100	100	100	100		 NP
beeryeville	0-00 	Muck			0		100	100	1 100	100	 	112
Cathro	0-28	Muck	PT	A-8	0	0	100	100		i		
	28-49	Loam, silty	CL, CL-ML,	A-4, A-6	0	0-5	80-100	65-100	60-100	35-90	20-40	6-21
		clay loam,	SC, SC-SM									
		sandy loam										
	49-60	Sandy loam,	CL, CL-ML,	A-4, A-6	0	0-5	80-100	65-100	60-100	35-90	20-40	6-21
		silty clay	SC, SC-SM									
		loam, loam										
Rondeau	 0-44	Muck	 PT	A-8	 0	 0	100	100	 	 		
j	44-60	Marl	OH, MH	A-5, A-7, A-8	0	0	100	95-100	80-90	60-80	16-24	2-9
		İ	İ	İ		İ	İ		İ	İ	İ	

			Classi	fication	Frag	ments	Pe	rcentag	e passi	ng		
Map symbol	Depth	USDA texture			.			sieve n	umber		Liquid	Plas-
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct					Pct	
426B:												
Emmert	0-1	Loamy sand	SM, SC-SM	A-2-4	0-2	0-15	80-100	75-100	40-70	15-25	0-24	NP-6
	1-5	Gravelly loamy	GW, GM, SM	A-2, A-1	0-2	0-15	30-55	25-50	15-30	1-20	0-23	NP-6
		coarse sand,										
		very gravelly										
		sand, very										
		gravelly										
		coarse sand,			!		ļ		ļ			!
		gravelly loamy			!							!
		sand										
	5-24	Very gravelly	GW, SM, GM	A-2, A-1	0-2	0-15	30-55	25-50	15-30	1-20	0-22	NP-6
		coarse sand,										
		gravelly loamy sand, very	 		1		l I		 			
	l I	gravelly sand,	l I			1	l I	1	l I		1	
	l I	gravelly loamy				1	l l	 	 		1	1
	 	coarse sand	 		1		i i	i	i i	i		i
	24-60		GW	A-1	0-2	0-15	30-55	25-50	10-30	0-5	0-16	NP-1
		coarse sand,			i -							
	i	very gravelly			i	İ	İ	i	İ	i	İ	i
		sand		İ	i	İ	İ	i	İ	i	İ	i
	İ	į	İ	i	i	į	İ	i	İ	i	İ	i
Mahtomedi	0-5	Loamy sand	SC-SM, SM	A-2	0	0-3	85-100	75-100	40-75	20-30	0-28	NP-10
	5-8	Sand, coarse	SM, SP-SM	A-2, A-3	0	0-3	85-100	75-100	35-75	5-30	0-23	NP-6
		sand, loamy										
		coarse sand										
	8-15	Gravelly coarse	SM, SP-SM	A-1	0	0-15	60-95	50-90	25-65	2-15	0-23	NP-6
		sand, coarse										
		sand, gravelly					ļ					!
		sand, sand										
	15-30	Gravelly sand,	SM, SP-SM	A-1, A-2, A-3	8 0	0-15	60-95	50-90	25-65	2-15	0-23	NP-6
		coarse sand,										
	20 60	Gravelly sand,	SM, SP-SM	 A-3, A-1, A-2	2 0	0 15	 55-95		125 65	0-15	0-23	 ND 6
	30-60 	coarse sand	SM, SP-SM	A-3, A-1, A-	. U	0-13	55-35	50-90	25-05	0-15	0-23	NP - 6
	 	Coarse sand	 		İ	 	l I	l I	l I			
Menahga	0-1	Slightly	 PT	A-8	0	0	100	100				
		decomposed			i -	-			i	i		i
	i	plant material			i	İ	İ	i	İ	i	İ	i
	1-2	Loamy sand	SM	A-2	0	0	95-100	80-100	40-75	15-30	0-26	NP-6
		Sand, loamy	SM	A-2, A-3	0	0		85-100		5-20	0-14	NP
		sand	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
	25-80	Sand, coarse	SM	A-2, A-3	0	0	95-100	85-100	55-70	5-15	0-14	NP
		sand										
	I	1	I.	1	1	1	1	1	1	1	1	1

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif	ication	Frag	ments		rcentage	-	-	 Liquid	 Plas-
and	2 op om		 	1	>10	3-10		22010 11			limit	
soil name		İ	Unified	AASHTO	inches	inches	4	10	40	200		index
	In	İ			Pct	Pct	<u>. </u>			<u> </u>	Pct	<u> </u>
426C:							 	 	 			
Emmert	0-1	Loamy sand	SC-SM, SM	A-2-4	0-2			75-100			0-24	NP-6
	1-5	Gravelly loamy coarse sand, very gravelly sand, very gravelly coarse sand, gravelly loamy sand	 	A-2, A-1 	0-2 	0-15 	30-55 	25-50 	15-30 	1-20 	0-23 	NP - 6
	5-24	Very gravelly coarse sand, gravelly loamy sand, very gravelly sand, gravelly loamy coarse sand	 	A-2, A-1 	0-2	0-15 	30-55 	25-50 	15-30 	1-20 	0-22 	NP - 6
	24-60	Very gravelly coarse sand, very gravelly sand	GW 	A-1 	0-2	0-15 	 30-55 	 25-50 	10-30 	0-5 	0-16 	 NP-1
Mahtomedi	0-5	Loamy sand	SC-SM, SM	A-2	0	0-3	85-100	75-100	40-75	20-30	0-28	NP-10
	5-8		SM, SP-SM	A-2, A-3 	0	0-3 	 85-100 	75-100 	 35-75 	5-30	0-23	NP-6
	8-15	Gravelly coarse sand, coarse sand, gravelly sand, sand	İ	A-1 	0 	0-15 	60-95 	50-90 	25-65	2-15	0-23	NP - 6
	15-30	Gravelly sand, coarse sand, sand	 SM, SP-SM 	 A-1, A-2, A-3 	0	 0-15 	 60-95 	 50-90 	 25-65 	2-15	0-23	 NP - 6
	30-60	Gravelly sand, coarse sand	SM, SP-SM 	A-3, A-1, A-2 	0	0-15 	55-95 	50-90 	25-65 	0-15	0-23	NP - 6
Menahga	0-1	Slightly decomposed plant material	 PT 	 A-8 	0	 0 	 100 	 100 	 	 	 	
	1-2	Loamy sand	SM	A-2	0	0	95-100	80-100	40-75	15-30	0-26	NP-6
		sand	SM	A-2, A-3	0	0 	İ	85-100 	į	5-20	0-14 	NP
	25-80	Sand, coarse sand 	SM 	A-2, A-3 	0 	0 	95-100 	85-100 	55-70 	5-15 	0-14 	NP

			Classi	fication	Fragi	nents	Pe	rcentag	e passi	ng		
Map symbol	Depth	USDA texture			l			sieve n	mber		Liquid	
and		ļ			>10	3-10	ļ				limit	
soil name		<u> </u>	Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct					Pct	
		ļ										!
426D:		_										
Emmert			SC-SM, SM	A-2-4	0-2		80-100					NP-6
	1-5	Gravelly loamy	GW, GM, SM	A-2, A-1	0-2	0-15	30-55	25-50	15-30	1-20	0-23	NP-6
		coarse sand,										
		very gravelly	 		1	 -	 	 	 			
		sand, very	 		1	 -	 	 	 			
		gravelly coarse sand,	 		1	l I	l I	l I	l I			
		gravelly loamy	 		1	 	l I	 	l I			1
		sand	 		i i	 	 	l I	l I	1		i
	5-24		GW, SM, GM	A-2, A-1	0-2	0-15	30-55	25-50	15-30	1-20	0-22	NP-6
		coarse sand,		,								
		gravelly loamy		i	İ	İ	İ	İ	İ	i	i	i
		sand, very	İ	i	į	İ	į	į	j	i	İ	i
		gravelly sand,	İ	į	į	İ	į	j	j	İ	į	į
		gravelly loamy										
		coarse sand										
	24-60	Very gravelly	GW	A-1	0-2	0-15	30-55	25-50	10-30	0-5	0-16	NP-1
		coarse sand,										
		very gravelly										
		sand			ļ					!		!
20 1 to 22	0.5	 										
Mahtomedi			SC-SM, SM	A-2	0	0-3	85-100	75-100		5-30	0-28	NP-10
	5-8	Sand, coarse sand, loamy	SM, SP-SM	A-2, A-3	0	0-3	 82-T00	175-100	35-75	5-30	0-23	NP-6
		coarse sand	 		1	l I	l I	l I	l I			
	Q_15	Gravelly coarse	 cw: cp_cw	 A-1	0	 0_15	 60-95	 50-90	 25-65	2-15	0-23	ND-6
	0 13	sand, coarse				0 13	00 33	30 30	23 03	1 2 23	0 23	1112
		sand, gravelly	! 			! 	 	! 	! 	i	1	i
		sand, sand			İ	İ	İ	İ	İ	i	i	i
	15-30		SM, SP-SM	A-1, A-2, A-3	0	0-15	60-95	50-90	25-65	2-15	0-23	NP-6
		coarse sand,	İ	i	į	İ	į	į	j	İ	İ	İ
		sand	ĺ		Ì	ĺ	ĺ	ĺ	ĺ	İ	İ	ĺ
	30-60	Gravelly sand,	SM, SP-SM	A-3, A-1, A-2	0	0-15	55-95	50-90	25-65	0-15	0-23	NP-6
		coarse sand										
		ļ										
Menahga	0-1	J . 1	PT	A-8	0	0	100	100				
		decomposed										
		plant material	•									
		Loamy sand	SM SM	A-2 A-2, A-3	0	0 0		80-100		15-30 5-20	0-26	NP-6 NP
	2-25	Sand, loamy sand	om	A-2, A-3	0	U	 22-T00	85-100	55-75 	5-∠0 	0-14	NP
	25-80	1	 SM	A-2, A-3	0	 0	 95_100	 85-100	 55-70	5-15	0-14	 NP
	23-00	sand	511	R-2, R-3		0	122-100	102-100	55-70	2-15	0-14	NF
		Dana	I	1	1	I	I	l .	1	1	1	1

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classi	fication	Fragi	ments		rcentag sieve n	e passi:	ng	 Liquid	Dlag
and	Depth	OSDA CEXCUIE		1	 >10	3-10	'	sieve ii	umber		limit	
soil name	 		 Unified	AASHTO		inches	 4	10	40	200		index
	In				Pct	Pct	<u>- </u>	<u> </u>		1	Pct	
	İ	j	İ	Ì	į	į	į	į	į	į	İ	į
430A:												
Freya	0-11	Loamy fine sand	SC-SM	A-2-4	0	0	100	100	60-95	15-30	0-26	NP-6
	11-32	Fine sand,	SC-SM, SM,	A-2-4	0	0	100	100	60-95	10-35	0-23	NP-6
		loamy fine sand	SP-SM			 	 	 	 	 		
	32-47	Loamy fine	SC-SM, SM	A-2-4	0	0	100	93-100	60-95	15-35	0-23	NP-6
		sand, fine										
		sand	 									
	47-66		CH	A-7-6, A-7	0	0	100		1	1	67-86	
	66-72	Clay, silty	CH CH	A-7, A-7-6 A-7, A-7-6	0	0 0	100 100		90-100		58-86	44-59
	/2-80 	clay, silty	CH	A-/, A-/-6	0	0	1 100	 93-100	 90-100	/ 5 - 9 5	58-86	30-39
		Clay	 			 	 	l I	 	 		l I
439B:			İ			<u> </u>	 	i	i		<u> </u>	
Graycalm	0-3	Loamy sand	SM	A-2	0	0-5	95-100	80-100	40-75	15-30	0-26	NP-6
	3-22	Sand, loamy	SM, SP-SM	A-2	0	0-5	95-100	80-100	40-75	5-30	0-23	NP-6
		sand										
	22-35 	Sand, loamy sand	SM	A-2, A-3	0	0-5	95-100 	80-100 	40-75 	5-30 	0-23	NP - 6
	35-60	Stratified sand	SM	A-2, A-3	0	0-5	95-100	80-100	40-80	5-30	0-27	NP-10
		to loamy sand		I			 					
Menahga	 0-1	Slightly	 PT	 A-8	0	 0	100	100				
		decomposed							i	i	i	i
		plant material	İ		i	i	İ	İ	i	İ	i	İ
	1-2	Loamy sand	SM	A-2	0	0	95-100	80-100	40-75	15-30	0-26	NP-6
	2-25	Sand, loamy	SM	A-2, A-3	0	0	95-100	85-100	55-75	5-20	0-14	NP
		sand										
	25-80	Sand, coarse	SM	A-2, A-3	0	0	95-100	85-100	55-70	5-15	0-14	NP
		sand										
439C:			l I	l I		 	 	 				
Graycalm	 0-3	Loamy sand	SM	 A-2	0	0-5	 95-100	 80-100	 40-75	15-30	0-26	 NP-6
		Sand, loamy	SM, SP-SM	A-2	0	0-5		80-100	1	5-30	1	NP-6
		sand		-								
	22-35	Sand, loamy	SM	A-2, A-3	0	0-5	95-100	80-100	40-75	5-30	0-23	NP-6
		sand		1	į							
	35-60	Stratified sand	SM	A-2, A-3	0	0-5	95-100	80-100	40-80	5-30	0-27	NP-10
		to loamy sand										

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		Table to the state of the state	Classi	fication	Fragi	ments		rcentago sieve no	-	_	 Liquid	
Map symbol and	Depth	USDA texture		1	_	3-10		sieve n	umber			
and soil name			 Unified	AASHTO		3-10 inches	 4	10	40	200	limic	ticity index
soil name			Unified	AASHTO		<u> </u>	4	1 10	40	200	<u> </u>	index
	In				Pct	Pct					Pct	
439C:	 					 	l I	l I	 	1	 	
Menahga	0-1	Slightly	PT	A-8	0	0	100	100				
		decomposed	 		1				i	i		!
	 	plant material			i	 	 	 	i	1		
	1-2	Loamy sand	SM	A-2	0	0	 95-100	80-100	40-75	15-30	0-26	NP-6
	2-25	Sand, loamy	SM	A-2, A-3	0	0		85-100			0-14	NP
		sand								5 25		==
	25-80	Sand, coarse	SM	A-2, A-3	0	0	 95-100	85-100	55-70	5-15	0-14	NP
	20 00	sand								5 25		==
	 				i	 	 	 	i	1		!
439D:					İ		İ	İ		İ	İ	
Graycalm	0-3	Loamy sand	SM	A-2	0	0-5	95-100	80-100	40-75	15-30	0-26	NP-6
	3-22	Sand, loamy	SM, SP-SM	A-2	0	0-5	95-100	80-100	40-75	5-30	0-23	NP-6
		sand										
	22-35	Sand, loamy	SM	A-2, A-3	0	0-5	95-100	80-100	40-75	5-30	0-23	NP-6
		sand										
	35-60	Stratified sand	SM	A-2, A-3	0	0-5	95-100	80-100	40-80	5-30	0-27	NP-10
		to loamy sand										
Menahga	0-1	Slightly	PT	A-8	0	0	100	100				
		decomposed										
		plant material										
	1-2	Loamy sand	SM	A-2	0	0	95-100	80-100	40-75	15-30	0-26	NP-6
	2-25	Sand, loamy	SM	A-2, A-3	0	0	95-100	85-100	55-75	5-20	0-14	NP
		sand										
	25-80	Sand, coarse	SM	A-2, A-3	0	0	95-100	85-100	55-70	5-15	0-14	NP
		sand										

Table 22.--Engineering Index Properties--Continued

Map symbol	 Depth	USDA texture	Classif	ication	Fragi	ments		_	e passi umber	_	 Liquid	 Plas-
and	200011				>10	3-10					limit	
soil name		İ	Unified	AASHTO	inches	inches	4	10	40	200		index
	In			<u> </u>	Pct	Pct			İ	İ	Pct	
442C:		 9-32	3-9									
	4-15 	Sandy loam, gravelly sandy loam, fine sandy loam, gravelly loam	SM, SC-SM 	A-1, A-2, A-4 	0-5 	0-7 	55-100 	50-90 	35-85 	15-65 	16-28 	1-9
	15-23	Gravelly sandy loam, sandy loam, fine sandy loam, gravelly loam	SM, SC-SM	A-1, A-2, A-4 	0-5 	0-7 	 55-100 	50-90 	35-75 	15-45 	16-28 	1-9
	23-35	Gravelly sandy loam, sandy loam, gravelly fine sandy loam	j	A-1, A-2, A-4 	0-5 	0-7 	 55-100 	 50-90 	35-75 	15-45 	 16-27 	2-10
	35-49	Sandy loam, gravelly sandy loam, fine sandy loam	SC, SM 	A-2, A-4, A-1 	0-5 	0-7 	 55-100 	50-90 	35-75	15-45	 17-28 	3-10
	49-79 	Gravelly sandy loam, sandy loam, fine sandy loam	SC, SC-SM	A-1, A-2 	0-5	0-7 	55-100 	50-90 	35-75	15-45	18-30 	4-12
	79-80 	Gravelly sandy loam, sandy loam, fine sandy loam	SC, SC-SM, SM 	A-1, A-2, A-4 	0-5 	0-7 	55-100 	50-90 	35-75 	15-45 	17-27 	3-10
Greenwood	0-6	Peat	PT	A-8	0	0	100	100	100	100		NP
	6-60	Mucky peat	 PT 	A-8	0 	, 0 	100	100	100	100		NP

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			Classif	ication	Fragi	ments	Pe	rcentage	e passi	ng		
Map symbol	Depth	USDA texture			İ		1	sieve n	umber		Liquid	Plas-
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct					Pct	
443D:		ļ										
Amery	0-3		•	A-2-4, A-4	0-5				50-75			1-7
	3-22			A-2-4, A-4	0-5	0-7	55-100	50-90	50-75	25-45	15-27	1-10
		loam, gravelly	!									!
		loam, gravelly										!
	00 04	sandy loam									115.06	
	22-34	Sandy loam, fine sandy	SC-SM, SM	A-1-b, A-2-4, A-4	0-5	0-7	55-100	50-90	35-/5	15-40	15-26	1-9
		loam, gravelly	l I	A-4	l I		 	l I	 	l I		
		sandy loam	 	 	l I	 	l I	l I	 	l I	 	
	34_41	Gravelly sandy	 दC_दM	 A-1-b, A-2-4,	 0-5	0-7	 55_100	 50-90	 35-75	 15_40	 15-27	1-10
	31-11	loam, fine	BC-BM, BM	A-4	0-5	0-7	55-100	30-30 	33-73	13-10	13-27	1-10
		sandy loam,	! 				! 	! 		! 		i
		sandy loam	! 	İ		 	! 	! 		! 	 	i
	41-57		SC, SM	A-2-4, A-4,	0-5	0-7	55-100	50-90	35-75	20-45	17-29	3-11
		loam, fine	İ	A-1-b	İ	i	İ	İ	İ	İ	i	i
		sandy loam,	İ	İ	i	į	j	į	į	į	į	i
		sandy loam	İ	İ	İ	į	İ	j	į	j	į	İ
	57-71	Sandy loam,	SC, SM	A-2-4, A-4,	0-5	0-7	55-100	50-90	35-75	20-45	17-29	3-11
		fine sandy		A-1-b								
		loam, gravelly										
		sandy loam										
	71-80	Sandy loam,	SC-SM, SM	A-1-b, A-2-4,	0-5	0-7	55-100	50-90	35-75	15-45	15-27	1-10
		fine sandy		A-4								
		loam, gravelly		!	!							!
		sandy loam								ļ		
Greenwood	0-6	 Peat	 PT				 100	 100	 100	 100	 	 NP
Greenwood		Mucky peat	PT	A-8 A-8	0 0	0 0	100	100	100	100		NP
	0-60	Mucky peat	PT 	A-8 	U	0	1 100	1 100	100	1 100		NP
459A:		l I] [İ	 	 	! 	 	l I	 	
Loxley	0-13	Mucky peat	PT	A-8	0	0	100	100	100	100		NP
	13-60		PT	A-8	0	0	100	100	100	100		NP
		İ		İ	İ	i	İ	İ	İ	İ	i	i
Daisybay	0-7	Peat	PT	A-8	0	0	100	100	i	i		
	7-30	Mucky peat	PT	A-8	0	0	100	100	j	i	i	
	30-35	Muck	PT	A-8	0	0	100	100				
	35-80	Clay, silty	CH, CL	A-7	0	0-3	90-100	90-100	80-100	65-95	45-61	25-37
		clay, silty										
		clay loam,	[[[[[
		clay loam	[[[[[
		1	I	I	1	1	I	I	1	1	1	1

Table 22.--Engineering Index Properties--Continued

			Classif	ication	Frag	ments	Pe	rcentag	e passi	ng		
Map symbol	Depth	USDA texture			_		:	sieve n	umber		Liquid	
and					>10	3-10					limit	-
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct	ļ	ļ		ļ	Pct	ļ
459A:						 	 	 		 		
Dawson	0-8	Peat	PT	 A-8	0	0	100	100				
Dawbon	8-38	Muck	1	A-8	0	0	100	100				
		Silt loam,	SM, ML, CL-ML	1	0	0	100	100	70-100	15-90	0-59	 NP-9
	55 25	loam, fine		,			200	====				
		sand, mucky		i	i	<u> </u>	İ	İ	i	i		i
		sand		<u> </u>	i	i	İ	İ	i	i	i	i
	40-60	Sand, gravelly	GP, SM, SP,	A-1, A-2,	0	0	45-100	35-100	15-90	0-45	0-23	NP-6
		sand, very	SP-SM	A-3, A-4	i	i	į	İ	i	i	i	į
		gravelly very	İ	İ	j	į	į	j	į	İ	İ	į
		fine sand	İ	ĺ	j	ĺ	ĺ	ĺ	ĺ	ĺ	İ	ĺ
461A:												
Bowstring	0.30	Muck	 PT	 A-8	0	 0	 100	 100		 		
Bowstring		Fine sand,	SP-SM, SM	A-8 A-2	0	0	100	100	1	10-20	0-19	
	30-4/	sand, loamy	SP-SM, SM	A-2	0	0	1 100	1 100	03-33	10-20	0-19	NP
		sand, roamy	1	 	-	 	 	l I	1	 	1	
	47-80	Muck	 PT	 A-8	0	 0	100	1 100		 		
	1, 00	Index					100	100				
465A:		İ	İ	j	j	į	į	į	į	į	į	į
Newson	0-3	Muck	PT	A-8	0	0	100	100				NP
	3-8	Loamy sand,	SM	A-2, A-3	0	0	80-100	75-100	50-70	5-15	0-14	NP
		mucky sand										
	8-16	Sand, loamy	SM	A-2, A-3	0	0	80-100	75-100	50-70	5-15	0-14	NP
		sand		!					!	!		
	16-22	Sand, loamy	SM	A-2, A-3	0	0	80-100	75-100	50-70	5-15	0-14	NP
		sand		!	!				!	!		!
	22-60	Sand, loamy	SM	A-2, A-3	0	0	80-100	75-100	50-70	5-15	0-14	NP
		sand		 				 				
Meehan	0-4	Sand	SM	 A-2	0	0	95-100	 90-100	60-75	 5-15	0-14	 NP-1
j	4-29	Sand	SM	A-2	0	0	95-100	90-100	60-75	5-15	0-14	NP-1
j	29-60	Sand	SM	A-2, A-3	0	0	95-100	90-100	60-75	5-15	0-14	NP-1
			İ	İ	į	İ	İ	İ	İ	İ	İ	İ

Map symbol	Depth	USDA texture	Classif	ication	Frag	ments	Pe	rcentag sieve n	-	-	 Liquid	 Plas
and	-			1	>10	3-10	i				limit	
soil name		İ	Unified	AASHTO	inches	inches	4	10	40	200	ï	index
	In	İ	İ	İ	Pct	Pct	İ	i	İ	İ	Pct	İ
		İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	į
469E:												
Bigisland	0-3	Cobbly loamy sand	SM, SC-SM	A-8, A-2-4	0-15	15-50	15-65	10-60	5-45	0-20	0-26	NP-6
	3-13	Very cobbly sand,	GM, GP, SM,	A-1-b, A-2-4	0-15	15-50	15-65	10-60	5-45	0-20	0-24	NP-6
		cobbly loamy	SC-SM, SP,									
		coarse sand, sand,	•									
		extremely gravelly	GC-GM, GP-GM		!		!				!	!
		loamy sand,										
	10.05	gravelly sand										
	13-25	Very gravelly loamy	•	A-1-b, A-2-4	0-15	15-50	15-65	10-60	5-45	0-20	0-24	NP-6
		sand, extremely gravelly loamy	GP, GP-GM, SC-SM, SM,	 		l i			 	l I	1	l I
		coarse sand, very		 	I	1		I	 	 	1	l I
		cobbly loamy sand,		 	İ	I I	i	I I	 	l I	İ	
		extremely cobbly	İ	! 		İ	i	1		i		İ
		loamy sand, very		İ	i	İ	i	i	İ	İ	i	i
		cobbly loamy	İ	İ	i	İ	i	i	İ	İ	i	į
		coarse sand	İ	İ	İ	İ	İ	İ	İ	İ	İ	į
	25-47	Stratified gravelly	GC-GM, GM,	A-1-b, A-2-4	0-15	15-50	15-65	10-60	5-45	0-20	0-24	NP-6
		sand to sand, very	GP, GP-GM,									
		cobbly sand,	SC-SM, SM,									
		cobbly loamy	SP, SP-SM				!					!
		coarse sand,										
		extremely cobbly										
		loamy sand, extremely gravelly				1						
		sand	 	 		l i			 	l I	1	l I
	47-56	Extremely gravelly	GC-GM GM	 A-1-b, A-2-4	0-15	15-50	 15-65	10-60	 5-45	0-20	0-24	 NP-6
	1, 30	loamy coarse sand,			0 13	13 30	13 03		3 13	0 20	0 21	
		very gravelly	SC-SM, SM,	 	i	i	i			i	1	
		loamy sand, very	SP, SP-SM	İ	İ	İ	i	i	İ	İ	i	İ
		cobbly loamy sand,	j	j	į	İ	į	İ	į	İ	į	į
		extremely cobbly		ĺ	İ	İ	İ		İ	ĺ	j	ĺ
		loamy sand, very										
		cobbly loamy										
		coarse sand										
	56-80	Extremely gravelly	•	A-2-4, A-6,	0-15	7-30	15-85	10-80	5-75	5-65	16-44	2-25
		coarse sandy loam,		A-4, A-7,	1							ļ
		cobbly fine sandy	SP-SC	A-1-a								
		loam, gravelly loam, very cobbly	 	 	I	1	I		 	I	1	I I
		clay loam,	 	 	1	1	1		 	 	1	I I
		extremely cobbly	 	 	1				 			I I
		sandy clay loam	1 	1 					 	1		i I
		January Clary Todam			İ		i					

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

			Classif	ication	Fragi	nents	Per	rcentag	e passi	ng		
Map symbol	Depth	USDA texture			_		:	sieve n	umber		Liquid	Plas-
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In	1			Pct	Pct			[Pct	
469E:				 		 	 	 				
Milaca	0 - 4	Sandy loam	SM, SC-SM, SC	A-4	0-2	0-3	90-100	85-98	55-70	25-40	18-35	2-10
	4-13	Fine sandy	CL-ML, ML,	A-4	0-2	0-3	90-100	85-98	55-95	25-75	17-28	2-7
		loam, sandy	SC-SM									
		loam										
	13-17	Sandy loam,	CL, SC	A-4, A-2	0-2	0-3	90-100	85-98	55-95	25-75	18-30	4-12
		fine sandy										
		loam, loam										
	17-43	Sandy loam,	CL, SC	A-2, A-4	0-2	0-3	90-100	85-98	55-95	25-75	20-30	6-12
		fine sandy										
		loam, loam										
	43-80	Sandy loam,	SC, SC-SM, SM	A-2	0-2	2-3	90-100	85-98	55-85	25-55	16-28	2-10
		fine sandy										
		loam										
I												

Classification Fragments Percentage passing

Map symbol 1	 Depth	Depth USDA texture		fication	.i	ments		rcentag sieve n		ng	 Liquid	
			77-161-4	3.3.0227700	>10	3-10		1.0	1 10		limit	ticity
soil name	 	<u> </u>	Unified	AASHTO		inches	4	10	40	200	D = 1	index
	In				Pct	Pct	 				Pct	l
471B:	 		 			 	 	-		l I	 	
Dairyland	0-1	Moderately decomposed	PT	A-8	0	0	100	100		 		
		plant material	İ		i		İ	İ	İ	İ		i
	1-7	Cobbly sandy	SM, SC-SM	A-2-4	0-7	15-50	15-60	10-55	5-35	1-20	18-35	2-13
	7-14 	Very gravelly loamy sand, extremely gravelly loamy coarse sand, extremely cobbly loamy sand, very	 	C A-2-4, A-1-b	0-7	15-50 	15-60 	10-55	5-30 	1-15 	0-28	NP-10
	İ	cobbly loamy	İ	İ	i	İ	İ	i	İ	İ	İ	
	 14-36 	coarse sand Very gravelly loamy sand, very cobbly loamy sand,	 GM 	A-2-4	0-7	 15-50 	 15-60 	10-55	 5-30 	 1-15 	0-26	 NP-10
		extremely cobbly loamy coarse sand, extremely gravelly loamy sand, very cobbly loamy				 	 			 	 	
	 36-49 	coarse sand Extremely gravelly loamy sand, very cobbly loamy sand, extremely	GM	 A-2-4 	 0-7 	 15-50 	 15-60 	 10-55 	 5-30 	 1-15 	0-26	 NP - 10
	49-80	cobbly loamy coarse sand, very gravelly loamy sand, very cobbly loamy coarse sand	SC, SC-SM, ML, SM, CL-ML, CL	 A-2-4, A-6, A-4	0-15	7-30	 25-95	20-90	15-80	5-50	16-39	2-21
	 	clay loam	 			 	 			 		

Table 22.--Engineering Index Properties--Continued

Map symbol	 Depth	USDA texture	Classi 	fication	Fragi	ments		rcentag sieve n	_	-	 Liquid	 Plas-
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In		 		Pct	Pct					Pct	
471B:			 		i							
Emmert	0-1	Gravelly coarse	SM, SC-SM	A-2-4	0-2	0-15	55-80	50-75	25-40	15-20	0-24	NP-6
		sandy loam										
	1-5	Gravelly loamy	GW, GM, SM	A-2, A-1	0-2	0-15	30-55	25-50	15-30	1-20	0-23	NP-6
		coarse sand,										
		very gravelly										
		sand, very										
		gravelly			ļ							
		coarse sand,			ļ.		!		!	!		!
		gravelly loamy			ļ.		!		!	!		!
		sand										
	5-24		GW, SM, GM	A-2, A-1	0-2	0-15	30-55	25-50	15-30	1-20	0-22	NP-6
		coarse sand,			ļ							
		gravelly loamy			ļ							
		sand, very			!		!					!
		gravelly sand,			!		!			-		!
		gravelly loamy coarse sand			-							
	04.60		l con	 A-1	0-2				110 20		0-16	 NP-1
	24-60	Very gravelly	GW	A-1	0-2	0-15	30-55	25-50	10-30	0-5	0-16	NP-1
		coarse sand,	 									
		very gravelly sand	 							1		
		sand						1				

Map symbol	Depth	USDA texture		Classif	ication	i	gments	Pe	rcentag sieve n	e passi	ng		 Plas-
and						>10	3-10		1	1	1	limit	ticity
soil name	<u> </u>		'	Unified	AASHTO		inches	4	10	40	200	<u> </u>	index
	In				l I	Pct	Pct					Pct	
471C:	 		 		 								
Dairyland	0-1	Moderately decomposed	PT		A-8	0	0	100	100				
	1-7	plant material Very cobbly loamy sand		SC-SM	A-2-4	0-7	15-50	15-60	10-55	5-30	1-15	0-28	 NP - 7
	7-14 	Very gravelly loamy sand, extremely gravelly loamy coarse sand, extremely cobbly loamy	 	SC-SM, SC	A-2-4, A-1- 	b 0-7	15-50	15-60 	10-55	5-30 	1-15 	0-28	NP-10
	 14-36 	loamy sand, very cobbly loamy sand, extremely cobbly loamy coarse sand,	 GM 		 A-2-4 	0-7	15-50	 15-60 	10-55	5-30	 1-15 	0-26	 NP-10
	 36-49	extremely gravelly loamy sand, very cobbly loamy coarse sand Extremely gravelly loamy sand, very cobbly loamy	 GM		 A-2-4 	0-7	15-50	 15-60	 10-55	 5-30	 1-15	0-26	 NP-10
	49-80	sand, extremely cobbly loamy coarse sand, very gravelly loamy sand, very cobbly loamy coarse sand	ML	SC-SM, , SM, -ML, CL	 A-2-4, A-6, A-4	0-15	7-30	 25-95 	20-90	15-80	5-50	16-39	2-21

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classi	fication	Fragi	ments		rcentag sieve n	_	-	 Liquid	 Plas-
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct					Pct	
471C:	 					 	 		 			
Emmert	0-1	Loamy sand	SC-SM, SM	A-2-4	0-2	0-15	80-100	75-100	40-70	15-25	0-24	NP-6
	1-5 	Gravelly loamy coarse sand, very gravelly sand, very gravelly coarse sand,	GW, GM, SM 	A-2, A-1 	0-2	0-15 	30-55 	25-50	15-30 	1-20 	0-23	NP - 6
	 5-24 	coarse sand, gravelly loamy sand, very	 GW, SM, GM 	 A-2, A-1	0-2	 0-15 	 30-55 	 25-50 	 15-30 	 1-20 	 0-22 	 NP-6
	 24-60 	gravelly sand, gravelly loamy coarse sand Very gravelly coarse sand, very gravelly sand		 A-1 	0-2	 0-15 	 30-55 	 25-50 	 10-30 	 0-5 	 0-16 	 NP-1

			Classif	ication	Fragi	ments		ercentag	_	-		
Map symbol	Depth	USDA texture			ļ			sieve n	umber		Liquid	
and	!				>10	3-10		1	1	1	limit	
soil name	l		Unified	AASHTO		inches	4	10	40	200		index
	In				Pct	Pct					Pct	
472A:												
Rockmarsh	0-1	Cobbly mucky	PT	A-8	0-15	15-50	100	100				
		peat										
	1-8	Very cobbly	CL, CL-ML, ML	A-4, A-6	0-15	15-50	25-65	20-60	20-60	15-55	18-39	2-17
		silt loam										
	8-23	Extremely	GC-GM, GM,	A-2-4, A-1-a	0-15	15-50	25-65	20-60	15-45	1-20	0-24	NP-6
		gravelly loamy	SC-SM, SM									
	!	coarse sand,	!				ļ		!	!		!
	!	very gravelly	!				ļ		!	!		!
		loamy coarse										
		sand, very										
	!	gravelly loamy	!	!	!		ļ	!	!	!		!
	!	sand,	!	!	!		ļ	!	!	!		!
	!	extremely	!	!	!		ļ	!	!	!		!
	!	cobbly loamy	!	!	!		ļ	!	!	!		!
	!	sand, very	!	!	!		ļ	!	!	!		!
	!	cobbly loamy	!	!	!		ļ	!	!	!		!
	!	coarse sand	!	!	!		ļ	!	!	!		!
	23-46	Extremely		A-2	0-15	15-50	25-65	20-60	15-55	5-35	20-43	6-25
	!	gravelly sandy	!	!	!		ļ	!	!	!		!
	!	clay loam,	!	!	!		ļ	!	!	!		!
	!	very cobbly	!	!	!		ļ	!	!	!		!
	!	sandy loam,	!	!	!		ļ	!	!	!		!
	!	extremely	!	!	!		ļ	!	!	!		!
	!	cobbly coarse	!	!	!		ļ	!	!	!		!
	!	sandy loam,	!	!	!		ļ	!	!	!		!
	!	very gravelly	!	!	!		ļ	!	!	!		!
	!	sandy clay	!	!	!		ļ	!	!	!		!
	!	loam	!	!	!		ļ	!	!	!		!
	46-80	Extremely	CL, CL-ML,	A-6, A-4,	0-15	15-50	15-95	10-90	5-85	1-70	16-30	2-13
	!	cobbly sandy	ML, SC,	A-2-4	!		ļ	!	!	!		!
	!	loam,	SC-SM, SM	!	!		ļ	!	!	!		!
	!	extremely	!	!	!		ļ	!	!	!		!
	!	gravelly sandy	!	!	!		ļ	!	!	!		!
	!	loam, very	!	!	!		ļ	!	!	!		!
		gravelly loam,			1			1	1	1		
		extremely			1			1	1	1		
		gravelly fine			1			1	1	1		
		sandy loam,			1			1	1	1		
		very cobbly			1			1	1	1		
	!	fine sandy			1			ļ	!	!		!
		loam			1					1		

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classi	fication	Frag	ments	Pe	_	e passi umber	ng	 Liquid	 Plas
and		!	ļ	ļ	>10	3-10	ļ				limit	
soil name		<u> </u>	Unified	AASHTO	<u> </u>	inches	4	10	40	200	ļ	index
	In				Pct	Pct					Pct	
472A:		 	 				 					
Clemens	0-2	Highly decomposed	PT 	A-8	1-5	0	100	100	i		 	
	2-7	loam	SC 	A-4, A-6, A-2-4	0-7	15-50 	15-65 	10-60	10-55	5-45	21-37	6-17
	7-10	Very gravelly loam, very cobbly sandy loam, extremely gravelly coarse sandy loam, gravelly loam, extremely cobbly		A-1-b, A-2-4, A-6, A-4	0-7 	15-50 	15-65 	10-60 	5-55 	0-45 	0-37	NP-17
	10-13	loam Very gravelly coarse sandy loam, very cobbly sandy loam, extremely gravelly coarse sandy loam,	GM, GP-GM, SM, SP-SM, SC	A-2-4, A-6, A-4, A-1-b	 0-7 	 15-50 	 15-65 	 10-60 	5-55 	 5-45 	0-37 	 NP - 17
	13-32	gravelly loam, extremely cobbly loam Very gravelly coarse sandy loam, very cobbly sandy loam, extremely	 GM, GP-GM, SM, SP-SM, SC	 A-4, A-6, A-2-4, A-1-b		 15-50 	 15-65 	 10-60 	 5-55 	 5-45 	 0-30 	 NP-11
	32-46	gravelly coarse sandy loam, gravelly loam, extremely cobbly loam Extremely gravelly coarse sandy loam, very cobbly sandy loam, very gravelly coarse	 GM, GP-GM, SC, SP-SM, SM, SP-SC	 A-1-b, A-4, A-6, A-2-4	 0-7 	 15-50 	 15-65 	 10-60 	 5-55	 5-45 	0-30	 NP-11
	46-80	sandy loam, gravelly loam, extremely cobbly loam Extremely gravelly loamy coarse sand, very cobbly loamy sand, very gravelly loamy sand, gravelly loamy coarse sand,	 	 A-2-4, A-1-a 	 0-7 	 15-50 	 15-65 	 10-60 	 5-45 	 0-20 	 0-23 	 NP-6
		extremely cobbly loamy sand	; 	j J	 	 	 	<u> </u> 	 	 	 	İ I

Map symbol	Depth	USDA texture	Classi	fication	.i	ments	Pe		e passi umber	ng	Liquid	
and					>10	3-10		1	1		limit	
soil name			Unified	AASHTO		inches	4	10	40	200	1	index
	In		l I		Pct	Pct					Pct	
473A:			 		1	 	i		1	i		i i
Dairyland	0-1	Moderately decomposed	PT	A-8	0	0	100	100				
	1-7	plant material Cobbly sandy loam	 SM, SC-SM 	A-2-4	0-7	 15-50 	 15-60 	10-55	5-35	1-20	18-35	2-13
	7-14	Very gravelly loamy sand, extremely gravelly loamy coarse sand, extremely cobbly loamy	SM, SC-SM, SO	A-2-4, A-1-b	0-7	15-50 	15-60 	10-55	5-30 	1-15 	0-28	NP-10
	14-36	sand, very cobbly loamy coarse sand Very gravelly loamy sand, very cobbly loamy sand, extremely cobbly loamy coarse sand, extremely	 GM 	 A-2-4 	 0-7 	 15-50 	 15-60 	 10-55 	 5-30 	 1-15 	 0-26 	 NP-10
	36-49	gravelly loamy sand, very cobbly loamy coarse sand	 - -	 A-2-4 	0-7	 15-50 	 15-60 	 	5-30	 1-15 	0-26	 NP-10
	49-80	cobbly loamy coarse sand, very gravelly loamy sand, very cobbly loamy coarse sand	SC, SC-SM, ML, SM, CL-ML, CL	 A-2-4, A-6, A-4	0-15	7-30	 25-95 	20-90	15-80	5-50	16-39	2-21

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	 Depth	USDA texture	Classi	fication		ments	Pe	-	e passi umber	ng	Liquid	
and soil name			Unified	AASHTO	>10	3-10 inches		10	40	200	limit	ticity
soli name	1	1	Unified	AASHTU	Pct	<u> </u>	1 4	1 10	1 40	200	 B-t	Index
	In			l I	PCt	Pct	l I	l I	l I		Pct	l I
473A:	 			i		 	l I					
Skog	0-1	Highly	PT	A-8	0	0	100	100				
-	i	decomposed	į	į	i	i	i	i	i	i	i	i
	i	plant material	į	j	i	į	İ	i	İ	İ	İ	İ
	1-6	Gravelly sandy	SC-SM, SC	A-2-4	0-7	0-25	20-70	15-65	10-40	5-25	22-32	6-11
	İ	loam		ĺ	İ	İ	ĺ	İ	İ	İ	İ	ĺ
	6-11	Gravelly sandy	SC, SC-SM,	A-2-4	0-7	0-25	20-70	15-65	5-40	1-25	0-30	NP-11
		loam, very	GC-GM, SM,		1							
		gravelly loamy	'									
		sand, gravelly										
		loamy sand,			ļ							
	!	very gravelly		ļ	ļ							ļ
		sandy loam										
	11-27	Extremely	SP, SP-SM	A-2, A-1	0-7	0-25	15-55	10-50	5-35	1-20	0-25	NP-7
		gravelly loamy		-				1		1		
		sand, very			ł			1		1		
		gravelly loamy sand, very	I I	ļ	- }	 	 	I I	l I	l I	1	
		gravelly loamy	I I	-	- }	 	 	1	1	1		
		coarse sand,			ł	 	 			i i		
	i	extremely		İ	i	! 	İ	İ		İ		i
	i	gravelly loamy		ì	ì		i	i		i		i
	i	coarse sand		i	i	i	İ	i	i	İ	İ	İ
	27-38	Extremely	SP, SP-SM	A-2, A-1	0-7	0-25	15-55	10-50	5-35	1-20	0-25	NP-7
	i	gravelly	į	į	i	į	İ	i	İ	į	İ	İ
	į	coarse sand,	İ	j	i	į	İ	İ	İ	İ	İ	İ
		very gravelly			[
		coarse sand,										
		extremely			1							
		gravelly loamy										
		coarse sand,			ļ							
	!	extremely		ļ			ļ	!		ļ		ļ
		gravelly loamy						1		!		ļ
		sand, very		ļ								
		gravelly loamy		-				1		1		
	38-80	coarse sand	ap ap av	 A-1	 0-7	0 05	115 55	10-50	5-25	0-5	0-18	 NTD 2
	38-80	Extremely	SP, SP-SM	A-1	0-7	0-25	12-22	10-20	5-25	0-5	0-18	NP-Z
		gravelly coarse sand,	I	ļ	- }	 	 	I I	l I	l I	1	
	 	very gravelly				 	1					
	<u> </u>	coarse sand,				<u> </u>	İ	İ		İ		İ
	<u> </u>	very gravelly		i		<u> </u>		i				
	i	sand,	i	i		i		i		i		
	i	extremely	i	i	i	i	İ	i	İ	İ	İ	İ
	i	gravelly sand	i	į	i	i	İ	i	İ	İ	İ	İ
	i	i -	i	i	i	i	i	i	i	i	i	i

Man grant - 1	Dest	HCDA tt	Classi	fication	Frag	ments		_	e passi	ng	 Liquid	ן ח
Map symbol and	Depth	USDA texture		1		3-10		sieve n	umber		Liquid limit	
soil name	l I		Unified	AASHTO		3-10 inches	4	10	40	200	11m1t	ticity index
SOII Hame	In	1	Unitied	AASHIO	Pct	Pct	*	1 10	1 40	1 200	Pct	Index
	111		1		PCL	PCL		 	l l	 	PCL	
484A:	 					 	i	i i		 	 	
Greenwood	0-6	Peat	PT	A-8	0	0	100	100	100	100		NP
	6-60	Mucky peat	PT	A-8	0	0	100	100	100	100		NP
	İ		İ	İ	İ	į	į	į	İ	İ	į	į
Beseman	0-36	Muck	PT	A-8	0	0	100	100				
	36-60	Silt loam,	CL, CL-ML,	A-4, A-2-4	0	0-2	80-100	65-100	40-100	25-90	20-33	4-13
		loam, sandy	SC-SM									
		loam										
485C:			1							 		
Lupton	 0-65	Muck	PT	 A-8	0	0	100	100	100	100		 NP
Lapcon	0 03	Mach					100	100	100	100	 	112
Tawas	0-31	Muck	PT	A-8	0	0	100	100				
	31-60	Fine sand,	SM, SP-SM,	A-2-4	0	0	100	70-100	65-90	10-30	0-23	NP-6
		coarse sand,	SC-SM		İ	İ	İ	İ	İ	ĺ	İ	ĺ
		loamy sand,										
		sand, loamy										
		fine sand,					!		ļ	!		!
		gravelly sand										
495B:	l I		1		I	 		 	l I	 	 	
Karlsborg	0-9	Loamy sand	SM	A-2	0	0	 95-100	95-100	 70-75	20-25	0-14	 NP
	9-28	Sand, loamy	SM	A-2	0	0		95-100		20-25	0-14	NP
		sand	İ	İ	i	i	i	i	İ	İ	i	i
	28-48	Clay	CH	A-7	0	0	100	100	85-100	85-100	64-90	40-60
	48-80	Sand	SM	A-2	0	0	100	100	50-70	5-15	0-19	NP-2
Grettum		Loamy sand	SC-SM, SM	A-2-4	0	0		85-100		15-25		NP-6
	3-32	Sand, loamy	SC-SM, SM	A-2-4, A-3	0	0	90-100	85-100	70-95	5-20	0-23	NP-6
	22.75	sand	CC CM CM		0	 0	100 100	 85-100	70 05	 5-20	 0-23	 NP-6
	32-75	Sand, loamy sand	SC-SM, SM	A-2-4, A-3	0	0	 90-100	 82-T00	10-95	5-20 	0-23	NP-6
	 75-80	Sand	SM	A-2-4, A-3	0	0	 90-100	85-100	 55-75	 5-15	0-21	 ND-4
	75 55									5 25	0	
Perida	0-9	Loamy sand	SM	A-2	0	0	90-100	80-100	60-75	15-25	0-14	NP
	9-43	Sand, loamy	SM	A-2	0	0	90-100	80-100	60-75	15-25	0-14	NP
		sand, fine	İ		İ	İ	İ	İ	İ	ĺ	İ	ĺ
		sand										
	43-45	Loamy sand,	SM	A-2	0	0	90-100	80-100	60-75	15-25	0-14	NP
		sand, fine					!		ļ	!		!
		sand										
	45-60	Clay, silty	CH	A-7	0	0	100	100	90-100	75-100	64-90	40-60
	 60-74	clay Silty clay,	 CH	 A-7	0	 0	100	100	 90-100	 75-100	 64 - 90	 40-60
	30-74	clay		8-7		0	1 100	1 100	120-100	 	04-30	-20-00
	 74-80	Sand	SM	A-2-4, A-3	0	0	90-100	85-100	55-75	 5-15	0-14	 NP
			i	, ,		i	i			i	i	i

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif	fication	Fragi	ments		rcentage	e passi	ng	 Liquid	 Blag-
and	рерсп	USDA CEXCUIE		1	_ >10	3-10	 	sieve II	miner		limit	
soil name			Unified	AASHTO		inches	 4	10	40	200	11111111	index
	In	1	01111100	1111111111111111111111111111111111111	Pct	Pct	l -	1	1 10	1 200	Pct	IIIGGA
			i i		100	100	 	 	i	İ	100	i I
495C:				i	i	 	! 		i	i	 	
Karlsborg	0 - 9	Loamy sand	SM	A-2	0	0	95-100	95-100	70-75	20-25	0-14	NP
i	9-28	Sand, loamy	SM	A-2	0	0	95-100	95-100	70-75	20-25	0-14	NP
j		sand	İ		j	İ	ĺ		İ	İ	İ	ĺ
	28-48	Clay	CH	A-7	0	0	100	100	85-100	85-100	64-90	40-60
	48-80	Sand	SM	A-2	0	0	100	100	50-70	5-15	0-19	NP-2
Grettum	0-3	Loamy sand	SC-SM, SM	A-2-4	0	0			60-80			NP-6
	3-32	Sand, loamy	SC-SM, SM	A-2-4, A-3	0	0	90-100	85-100	70-95	5-20	0-23	NP-6
		sand							!			
	32-75	Sand, loamy	SC-SM, SM	A-2-4, A-3	0	0	90-100	85-100	70-95	5-20	0-23	NP-6
		sand										
	75-80	Sand	SM	A-2-4, A-3	0	0	90-100	85-100	55-75	5-15	0-21	NP-4
Perida	0-9	Loamy sand	 SM	 A-2	0	 0	 00 100	 00 100	 60-75	115 25	 0-14	 NP
Perida		Sand, loamy	SM	A-2	0	0			60-75		0-14	NP
	3-43	sand, fine	SM	A-2	0	0	30-100	80-100	60-75	15-25	0-14	NP
		sand				 	 	 		1	 	l I
	43-45	Loamy sand,	SM	A-2	0	0	 90 - 100	 80-100	 60-75	15-25	0-14	 NP
	15 15	sand, fine					50 100	00 100	00 75	13 23	0 11	111
		sand		İ	i	<u> </u>	! 	! 	i	i	<u> </u>	i
	45-60	Clay, silty	CH	A-7	0	0	100	100	90-100	75-100	64-90	40-60
į		clay	İ	i	i	į	j	İ	i	İ	į	į
j	60-74	Silty clay,	CH	A-7	0	0	100	100	90-100	75-100	64-90	40-60
		clay										
	74-80	Sand	SM	A-2-4, A-3	0	0	90-100	85-100	55-75	5-15	0-14	NP
495D:												
Karlsborg	0 - 9	Loamy sand	SM	A-2	0	0			70-75		0-14	NP
	9-28	Sand, loamy	SM	A-2	0	0	95-100	95-100	70-75	20-25	0-14	NP
		sand										
	28-48 48-80		CH SM	A-7 A-2	0	0 0	100 100		85-100 50-70	85-100 5-15		40-60
	48-80	Sand	SM	A-2	0	0	1 100	1 100	50-70	5-15	0-19	NP-2
Grettum	0-3	Loamy sand	SC-SM, SM	A-2-4	 0	 0	 00_100	 05_100	 60-80	15-25	0-23	 NP-6
Greccum		Sand, loamy	SC-SM, SM	A-2-4, A-3	0	0		85-100	1	5-20		NP-6
	3-32	sand sand	ac-am, am	A-2-4, A-3	0	0	30-100 	83-100	70-33	3-20	0-23	NF - 0
	32-75	Sand, loamy	SC-SM, SM	A-2-4, A-3	0	 0	90-100	 85-100	70-95	5-20	0-23	NP-6
	35	sand		,				-5 -50			3 23	
	75-80		SM	A-2-4, A-3	0	0	90-100	85-100	55-75	5-15	0-21	NP-4
		i	i		i	i	İ		i	İ	i	i

Table 22.--Engineering Index Properties--Continued

			Classi	fication	Frag	ments		rcentag	_	ng		
Map symbol	Depth	USDA texture		1	_	1 2 10		sieve n	umber		Liquid	
and			Unified	AASHTO	>10	3-10 inches	 4	10	40	200	limit	ticity index
soil name		1	Unified	AASHTO		<u> </u>	4	1 10	40	200	1 5-6	ınaex
	In	1		l I	Pct	Pct	 	l I		 	Pct	l I
495D:				İ		 	 	l I	! !	 	 	
Perida	0-9	Loamy sand	SM	A-2	0	0	90-100	80-100	60-75	15-25	0-14	NP
	9-43	Sand, loamy	SM	A-2	0	0		80-100	1	1	0-14	NP
		sand, fine		İ		i i	 	 	İ	i i	 	i I
	43-45	Loamy sand,	SM	A-2	0	0	90-100	80-100	60-75	15-25	0-14	NP
		sand, fine	İ	i	i	i	İ	İ	i	i	i	İ
		sand	İ	i	i	i	İ	İ	i	i	i	İ
	45-60	Clay, silty	CH	A-7	0	0	100	100	90-100	75-100	64-90	40-60
		clay	İ	į	i	i	į	i	i	i	i	İ
	60-74	Silty clay,	CH	A-7	0	0	100	100	90-100	75-100	64-90	40-60
		clay	İ	j	į	į	į	İ	İ	į	į	İ
j	74-80	Sand	SM	A-2-4, A-3	0	0	90-100	85-100	55-75	5-15	0-14	NP
496B:				Ţ								
Karlsborg		Loamy sand	SM	A-2	0	0		95-100			0-14	NP
	9-28	Sand, loamy	SM	A-2	0	0	95-100	95-100	70-75	20-25	0-14	NP
		sand						!	!	!		
	28-48	Clay	CH	A-7	0	0	100	100			64-90	
	48-80	Sand	SM	A-2	0	0	100	100	50-70	5-15	0-19	NP-2
496C:		1	I I	ļ Ī	l I	 	 	 		 	 	l I
Karlsborg	0 - 9	Loamy sand	SM	A-2	0	0	 95-100	 95-100	70-75	20-25	0-14	 NP
	9-28	Sand, loamy	SM	A-2	0	0		95-100	1	20-25	0-14	NP
		sand			-							
	28-48	Clay	CH	A-7	0	0	100	100	85-100	85-100	64-90	40-60
	48-80	Sand	SM	A-2	0	0	100	100	50-70	5-15	0-19	NP-2
İ		İ		İ	İ	ĺ	ĺ	ĺ	ĺ	İ	ĺ	
496D:				Ţ								
Karlsborg	0 - 9	Loamy sand	SM	A-2	0	0		95-100			0-14	NP
	9-28	Sand, loamy sand	SM	A-2	0	0	95-100	95-100	70-75	20-25	0-14	NP
	28-48	Clay	CH	 A-7	0	0	100	100	 85-100	85-100	64-90	 40-60
	48-80		SM	A-2	0	0	100		50-70	5-15	0-19	
	10 00	l					100	100	30 70	3 13	0 15	
497A:		İ	İ	i	i	i	į	i	i	i	i	İ
Meenon	0 - 9	Loamy sand	SM	A-2	0	0	80-100	75-100	45-75	20-30	0-14	NP
j	9-28	Sand, loamy	SM	A-3	0	0	80-100	75-100	35-75	5-30	0-14	NP
		fine sand	İ	į	i	İ	İ	İ	İ	İ	İ	
	28-41	Clay	CH	A-7	0	0	97-100	95-100	80-100	75-100	65-85	40-60
	41-80	Sand, fine	SM	A-3	0	0	97-100	95-100	60-70	5-25	0-20	NP-4
		sand, loamy			İ			[
		fine sand			İ			[
					İ			[

Table 22.--Engineering Index Properties--Continued

Man growh - 1	 Denti	IICDA bomboos	Classi	fication	Fragi	ments		_	e passi:	ng	 Tidom: 2.3	
Map symbol	Depth	USDA texture		1	_	1 2 10	1	sieve n	umber		Liquid	
and soil name	 		Unified	AASHTO	>10	3-10 inches	 4	10	40	200	limit	ticity index
SOII Hame	 T	1	Unitied	AASHIO			**	1 10	40	1 200	 D=t	Index
	In		 		Pct	Pct	 	l I	 	l I	Pct	
521A:	 		 		I I	 	 	l I	 	 	 	1
Dody	0-3	Muck	 PT	 A-8	0	 0	100	100		 		
2007	3-9	1	SC-SM, SM	A-2-4, A-3	0	0	100	98-100	1	5-20	0-23	NP-6
		fine sand,					İ	İ		i		i
	İ	fine sand		i	i	İ	İ	İ	İ	İ	İ	i
	9-20	Fine sand,	SC-SM, SM,	A-2-4	0	0	100	98-100	85-95	10-20	0-23	NP-6
		sand, loamy	SP-SM	İ	İ	ĺ	ĺ	ĺ	ĺ	ĺ	İ	İ
		fine sand										
	20-23	Loamy sand,	SC-SM, SM	A-2-4	0	0	100	98-100	65-80	15-25	0-23	NP-6
		sand, loamy										
		fine sand,								!		!
		fine sand										
	23-47		CH	A-7	0	0	100	98-100	80-100	75-100	55-70	30-40
	45 50	clay			0	 0						
	47-58	Loamy sand, sand, loamy	SC-SM, SM	A-2-4	0	0	100	 98-100	65-80	15-25	0-23	NP-6
	 	fine sand,	 		I I	 	 	l I	 	 	 	1
	 	fine sand	 		i i	 	 	l I	 	l I	 	i
	 58-80	•	SC-SM, SM	A-2-4	0	l 0	100	 98-100	65-80	15-25	0-23	NP-6
		sand, loamy			-	-						
	İ	fine sand,		i	i	İ	İ	İ	İ	i	İ	i
	j	fine sand	İ	j	j	İ	į	į	į	į	į	į
				İ	İ	ĺ	ĺ	ĺ	ĺ	ĺ	İ	İ
523A:												
Nokasippi	0-6	Muck	PT	A-8	0	0	100	100				
	6-15		SM, SC-SM	A-2, A-3	0	0	90-100	85-100	55-75	5-35	0-23	NP-6
		fine sand,								!		!
		loamy fine										
		sand, sand									116 20	
	15-22	Very fine sandy loam, fine	SC-SM, ML,	A-4	0	0-5	90-100	85-100	65-95	30-60	16-32	2-13
	 	sandy loam	SC-SM, ML,		I I	 	 	l I	 	 	 	1
	 22_31		CL, SC	A-6, A-2-6	0	0-5	 90 - 100	 85-100	 70-90	 30-70	29-40	 13-21
		loam, loam										
	31-45	Gravelly loamy	SM	A-2, A-1	0	0-15	75-100	70-100	35-75	5-25	0-22	NP-5
	İ	coarse sand,		i	i	İ	İ	İ	İ	İ	İ	i
	İ	loamy sand,	İ	İ	j	İ	į	j	į	İ	İ	İ
		gravelly sand,										
		coarse sand										
	45-60		ML, SC-SM,	A-2-4, A-4	0	0-15	75-95	70-90	40-70	20-50	16-28	2-10
			SC, SM,	!				!				
	<u> </u>	loam, fine	CL-ML	1			ļ	ļ	ļ	ļ		ļ.
		sandy loam,						ļ	ļ.	!		!
		gravelly fine sandy loam				 						

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			Classi	fication	Frag	ments	Pe	rcentag	e passi	ng		
Map symbol	Depth	USDA texture					İ	sieve n	umber		Liquid	Plas-
and					>10	3-10					limit	ticity
soil name	ĺ	İ	Unified	AASHTO	inches	inches	4	10	40	200	İ	index
	In	<u> </u>	<u> </u>	!	Pct	Pct	!	!	!	ļ.	Pct	!
529B:	 						 	 	 	 		
Perida	0-9	Sand	SM	A-2	0	0	95-100	95-100	30-70	5-15	17-25	2-4
	9-43	Sand, fine sand	SM	A-2	0	0	90-100	80-100	40-80	5-25	0-14	NP
	43-45	Sand, fine sand	SM	A-2	0	0	90-100	80-100	40-80	5-25	0-14	NP
	45-60	Clay, silty	CH	A-7	0	0	100	100	90-100	75-100	64-90	40-60
	į	clay	İ	j	į	İ	į	į	į	İ	İ	İ
	60-74	Silty clay,	CH	A-7	0	0	100	100	90-100	75-100	64-90	40-60
		clay										
	74-80	Sand	SM	A-2-4, A-3	0	0	90-100	85-100	55-75	5-15	0-14	NP
531A:	 									 		
Stengel	0-4	Loamy sand	SM	A-1-b	0	0	90-100	85-100	45-75	15-30	17-29	1-6
	4-20	Loamy sand,	SM	A-1-b	0	0	90-100	85-100	35-75	5-30	16-26	1-6
		sand										
	20-46	Sand, loamy	SM	A-1-b	0	0	90-100	85-100	35-75	5-30	16-26	1-6
		sand										
	46-50	Loamy sand,	SM	A-1-b	0	0	90-100	85-100	35-75	5-30	16-26	1-6
		sand										
	50-76	Clay, silty	CH	A-7	0	0	99-100	98-100	90-100	75-95	58-86	36-59
		clay										
	76-80	Sand, loamy	SM, SP-SM	A-2	0	0	99-100	98-100	50-75	5-30	0-18	NP-1
		sand, loamy										
		fine sand										

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif	ication	Fragi	ments		_	ge passi number	-	 Liquid	 Plas-
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In	1			Pct	Pct					Pct	
542B:			 		 							
Haugen, very												
stony	0 - 4	Sandy loam	SC-SM, SM	A-2-4, A-4	0-5	0-7	85-100	75-98	50-70	20-40	19-32	3-9
	4-15	Sandy loam, gravelly sandy loam, fine sandy loam, gravelly loam	SM, SC-SM 	A-1, A-2, A-4 	0-5 	0-7 	55-100 	50-90 	35-85	15-65 	16-28 	1-9
	15-23		 SM, SC-SM 	 A-1, A-2, A-4 	 0-5 	 0-7 	 55-100 	 50-90 	35-75 	 15-45 	 16-28 	 1-9
	23-35	Gravelly sandy loam, sandy loam, gravelly fine sandy loam	İ	A-1, A-2, A-4 	 0-5 	0-7 	 55-100 	 50-90 	35-75	 15-45 	 16-27 	 2-10
	35-49	Sandy loam, gravelly sandy loam, fine sandy loam	SC, SM 	A-2, A-4, A-1 	0-5 	0-7 	 55-100 	50-90 	35-75	15-45	17-28 	3-10
	49-79	Gravelly sandy loam, sandy loam, fine sandy loam	SC, SC-SM 	A-1, A-2 	0-5 	0-7 	 55-100 	50-90 	35-75 	15-45	18-30 	4-12
	79-80	Gravelly sandy loam, sandy loam, fine sandy loam	SC, SC-SM, SM 	[A-1, A-2, A-4 	0-5 	0-7 	55-100 	50-90 	35-75 	15-45 	17-27 	3-10

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Map symbol	 Depth 	USDA texture	Classification		Fragments		Percentage passing sieve number				Liquid	 Plas-
and					>10	3-10						ticity
soil name		İ	Unified	AASHTO	inches	inches	4	10	40	200		index
	In			[Pct	Pct	[Pct	
542B:												
Haugen	0-7	Sandy loam	SC-SM, SM	A-2-4, A-4	0-5	0-7	85-100	75-98	50-70	20-40	19-32	3-9
	7-15 	Sandy loam, gravelly sandy loam, fine sandy loam, gravelly loam	SM, SC-SM 	A-1, A-2, A-4 	0-5 	0-7 	55-100 	50-90 	35-85 	15-65 	16-28 	1-9
	15-23 	Gravelly sandy loam, sandy loam, fine sandy loam, gravelly loam	SM, SC-SM 	A-1, A-2, A-4 	0-5 	0-7 	55-100 	50-90	35-75 	15-45 	16-28 	1-9
	23-35	Gravelly sandy loam, sandy loam, gravelly fine sandy loam	İ	A-1, A-2, A-4 	0-5 	0-7 	 55-100 	50-90 	35-75 	15-45	16-27 	2-10
	35-49	Sandy loam, gravelly sandy loam, fine sandy loam	SC, SM 	A-2, A-4, A-1 	0-5 	0-7 	55-100 	50-90 	35-75	15-45	17-28	3-10
	49-79 	Gravelly sandy loam, sandy loam, fine sandy loam	SC, SC-SM 	A-1, A-2 	0-5 	0-7 	55-100 	50-90 	35-75	15-45	18-30	4-12
	79-80	Gravelly sandy loam, sandy loam, fine sandy loam	SC, SC-SM, SM 	A-1, A-2, A-4 	0-5 	0-7	55-100 	50-90 	35-75 	15-45 	17-27 	3-10

Table 22.--Engineering Index Properties--Continued

Map symbol	 Depth	USDA texture	Classif	Fragments		Percentage passing sieve number				 Liquid	 Plas-	
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200	1	index
	In				Pct	Pct					Pct	
542C:			 									
Haugen, very												
stony	0 - 4	Sandy loam	SC-SM, SM	A-2-4, A-4	0-5	0-7	85-100	75-98	50-70	20-40	19-32	3-9
	4-15	gravelly sandy loam, fine	SM, SC-SM 	A-1, A-2, A-4 	0-5	0-7	55-100 	50-90 	35-85	15-65 	16-28 	1-9
	15-23	sandy loam, gravelly loam Gravelly sandy	 - sm sc-sm	 A-1, A-2, A-4	 0-5	 0-7	 55-100	 50-90	 35-75	 15-45	 16-28	 1-9
	15-25	loam, sandy loam, fine sandy loam, gravelly loam	 		0-3 		 					
	23-35	gravelly sandy loam, sandy loam, gravelly fine sandy loam	İ	A-1, A-2, A-4 	 0-5 	 0-7 	 55-100 	 50-90 	35-75 	 15-45 	 16-27 	 2-10
	35-49		 SC, SM 	 A-2, A-4, A-1 	 0-5 	 0-7 	 55-100 	 50-90 	 35-75 	 15-45 	 17-28 	 3-10
	49-79	Gravelly sandy loam, sandy loam, fine sandy loam	SC, SC-SM 	A-1, A-2 	0-5 	0-7 	 55-100 	50-90 	35-75 	15-45	18-30	4-12
	79-80	Gravelly sandy loam, sandy loam, fine sandy loam	SC, SC-SM, SM 	A-1, A-2, A-4 	0-5	0-7 	55-100 	50-90	35-75	15-45	17-27 	3-10

Table 22.--Engineering Index Properties--Continued

Map symbol and soil name	 Depth	USDA texture	Classification		Fragments		Percentage passing sieve number				Liquid	 Dlag.
	Depth	OSDA CEXCUIE			>10	3-10	sieve number					
			Unified	AASHTO		inches	 4	10	40	200	11111111	ticity
	 In	1	Unitied	AADIIIO	Pct	Pct	1 4	1 10	1 10		Pct	THUEX
	1 111		 	l I	PCL	PCL	 	l I			PCL	l I
542C:	 	I I	 	 	l I	 	 	l I		1		l I
Haugen	 0-7	Sandy loam	SC-SM, SM	 A-2-4, A-4	0-5	0-7	 05_100	 75_00	 50-70	20-40	10-22	 3-9
naugen	7-15	Sandy loam,		A-1, A-2, A-4		0-7				15-65	1	1-9
	, 13	gravelly sandy			0 3	0 ,	33 100	30 30	33 03	13 03	10 10	
	! 	loam, fine	İ	! 				! 	i	i		!
	! 	sandy loam,	İ	! 	i	! 	 	i I	i	1	<u> </u>	i
	İ	gravelly loam	i		i	i	İ	İ	i	i	i	i
	15-23	Gravelly sandy	SM, SC-SM	A-1, A-2, A-4	0-5	0-7	55-100	50-90	35-75	15-45	16-28	1-9
	İ	loam, sandy	İ	İ	i	į	į	į	i	i	i	j
	İ	loam, fine	İ	İ	i	į	į	į	i	i	i	j
	ĺ	sandy loam,	İ		ĺ	İ	ĺ	ĺ	İ	İ	İ	ĺ
		gravelly loam										
	23-35	Gravelly sandy	SC-SM, SM	A-1, A-2, A-4	0-5	0-7	55-100	50-90	35-75	15-45	16-27	2-10
		loam, sandy										
		loam, gravelly										
		fine sandy										
		loam										
	35-49	1	SC, SM	A-2, A-4, A-1	0-5	0-7	55-100	50-90	35-75	15-45	17-28	3-10
		gravelly sandy							!			ļ
		loam, fine							!			
	40 50	sandy loam			 0-5					115 45	110 20	
	49-79	1	SC, SC-SM	A-1, A-2	0-5	0-7	55-100	50-90	35-75	15-45	18-30	4-12
	 	loam, sandy loam, fine	l I	l I	l I		 	l I				l I
	 	sandy loam	 	 	l I	 	l I	l I		1		l I
	 79_80	Gravelly sandy	ן בר פר⊾פאז פאז	 a_1 a_2 a_4	 0-5	0-7	 55_100	 50-90	 35-75	15-45	17-27	3-10
	75-00 	loam, sandy	bc, bc-bm, bm	A-1, A-2, A-1 	0-5	0-7	33-100	30-30 	33-73	1	17-27	J-10
	! 	loam, fine	İ	! 				! 	i	i		!
	! 	sandy loam			i	i	İ	İ	i	i	İ	i I
	İ		i		i	i	İ	İ	i	i	i	İ
544F:	İ	İ	İ	<u> </u>	İ	i	İ	İ	i	i	i	İ
Menahga	0-1	Slightly	PT	A-8	0	0	100	100			j	
	İ	decomposed	İ	İ	İ	į	į	j	İ	İ	İ	İ
		plant material										
	1-2	Sand	SM	A-2, A-3	0	0	95-100	85-100	55-70	5-15	0-14	NP
	2-25	Sand, loamy	SM	A-2, A-3	0	0	95-100	85-100	55-75	5-20	0-14	NP
		sand										
	25-80	Sand, coarse	SM	A-2, A-3	0	0	95-100	85-100	55-70	5-15	0-14	NP
		sand			[
										1		

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif	ication	Fragi	ments		rcentag	_	-	Liquid	 Plas-
and					>10	3-10	i				limit	
soil name	i	i	Unified	AASHTO	inches	inches	4	10	40	200		index
	In			İ	Pct	Pct	İ	İ		İ	Pct	İ
544F:	 		 	 		 	 	 	 			
Mahtomedi	0-5	Loamy sand	SC-SM, SM	A-2	0	0-3	85-100	75-100	40-75	20-30	0-28	NP-10
	5-8			A-2, A-3	0	0-3		75-100				
		sand, loamy				 	 	i I				i I
	8-15	Gravelly coarse	SM, SP-SM	A-1	0	0-15	60-95	50-90	25-65	2-15	0-23	NP-6
		sand, coarse sand, gravelly sand, sand		 		 	 	 	; 	 		
	15-30	Gravelly sand, coarse sand, sand	SM, SP-SM	 A-1, A-2, A-3 	0	0-15	 60-95 	50-90 	25-65	2-15	0-23	NP-6
	30-60	Gravelly sand, coarse sand	 SM, SP-SM 	 A-2, A-3, A-1 	0	 0-15 	 55-95 	 50-90 	25-65	0-15	0-23	 NP-6
553B:			 	 			 					
Branstad	0-9	Fine sandy loam	SC-SM, SC,	A-4 	0	0-7	85-100	80-98	55-85	30-55	22-32	5-11
	9-14 	Fine sandy loam, loam, sandy loam	CL, CL-ML, SC, SC-SM 	A-2-4, A-4, A-6 	0 	0-7 	85-100 	80-98 	45-95 	25-75 	21-34 	6-16
	14-20 	Fine sandy loam, sandy clay loam, loam, sandy loam	CL, SC, SC-SM 	A-4, A-6, A-2-4 	0 	0-7 	85-100 	80-98 	45-95 	25-75 	23-36 	8-17
	20-45	Sandy clay loam, fine sandy loam, loam	CL, SC, SC-SM 	A-4, A-6, A-2-4 	0 	0-7 	 85-100 	80-98 	55-95 	30-75	23-36	8-17
	45-55 	Sandy clay loam, fine sandy loam, loam	CL, SC, SC-SM 	A-4, A-6 	0 	0-7 	 85-100 	 80-98 	55-95 	30-75	23-36	8-17
į Į	55-68		 CL, SC, SC-SM 	A-4, A-6 	0 	0-7 	85-100 	80-98 	55-95 	30-75	23-36	8-17
	68-80	Fine sandy loam, loam, sandy clay loam	CL, SC, SC-SM 	A-4, A-6 	0 	0-7 	 85-100 	80-98 	55-95 	30-75	23-36 	8-17

			Classif	ication	Fragi	ments	Pe	rcentag	e passi	ng		
Map symbol	Depth	USDA texture			_		:	sieve n	umber		Liquid	Plas-
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In	ļ			Pct	Pct			[[Pct	[
553C:	 	 	 	 		 	 					
Branstad	0-9	Fine sandy loam	SC-SM, SC,	A-4 	0	0-7	85-100	80-98	55-85	30-55	22-32	5-11
	9-14	Fine sandy	CL, CL-ML,	A-2-4, A-4,	0	0-7	85-100	80-98	45-95	25-75	21-34	6-16
		loam, loam,	SC, SC-SM	A-6	İ	 	j I	j I	į į	İ	į į	j I
	14-20 	loam, sandy clay loam,	CL, SC, SC-SM	A-4, A-6, A-2-4	0	0-7 	85-100 	80-98 	45-95 	25-75	23-36	8-17
	 20-45	loam, sandy loam Sandy clay loam, fine	 CL, SC, SC-SM 	 A-4, A-6, A-2-4	 0	 0-7 	 85-100 	 80-98 	 55-95	30-75		 8-17
	 45-55 	sandy loam, loam Sandy clay loam, fine sandy loam,	 CL, SC, SC-SM 	 A-4, A-6	 0 	 0-7 	 85-100 	 80-98 	 55-95 	 30-75		 8-17
	 55-68 	loam	 CL, SC, SC-SM 	 A-4, A-6 	 0 	 0-7 	 85-100 	 80-98 	 55-95 	30-75	23-36	 8-17
	 68-80 	loam	 CL, SC, SC-SM 	 A-4, A-6 	 0 	 0-7 	 85-100 	 80-98 	 55-95 	30-75	23-36	 8-17

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif	ication	Fragi	nents		rcentag	e passi: umber	ng	 Liquid	Plas-
and	-	İ			>10	3-10	i				limit	
soil name		İ	Unified	AASHTO	inches	inches	4	10	40	200	Ï	index
	In			 	Pct	Pct	[[Pct	
553D:												
Branstad	0-9	Fine sandy loam 	SC-SM, SC, CL-ML	A-4 	0	0-7 	85-100 	80-98 	55-85 	30-55 	22-32	5-11
	9-14	Fine sandy loam, loam, sandy loam	CL, CL-ML, SC, SC-SM 	A-2-4, A-4, A-6 	0 	0-7 	85-100 	80-98 	45-95 	25-75 	21-34 	6-16
	14-20	Fine sandy loam, sandy clay loam, loam, sandy loam	CL, SC, SC-SM 	A-4, A-6, A-2-4 	0 	0-7 	85-100 	80-98 	45-95 	25-75 	23-36 	8-17
	20-45	Sandy clay loam, fine sandy loam, loam	 CL, SC, SC-SM 	 A-4, A-6, A-2-4 	 0 	0-7 	 85-100 	 80-98 	 55-95 	 30-75 	23-36	 8-17
	45-55	Sandy clay loam, fine sandy loam, loam	CL, SC, SC-SM 	A-4, A-6 	0 	0-7 	85-100 	80-98 	55-95 	30-75 	23-36 	8-17
	55-68	Fine sandy loam, sandy clay loam, loam	CL, SC, SC-SM	A-4, A-6 	0 	0-7	85-100 	80-98 	55-95 	30-75	23-36	8-17
	68-80	Fine sandy loam, loam, sandy clay loam	CL, SC, SC-SM 	A-4, A-6 	0 	0-7 	85-100 	80-98 	55-95 	30-75 	23-36	8-17
555A:						 						
Fordum		Silt loam Silt loam, fine sandy loam, mucky sandy loam, gravelly loam	SM 	A-4, A-6 A-1, A-2, A-4 	0 0 	0-15 	60-100 	50-100 	70-100 35-100 	15-85 	0-30	3-15 3-10
	18-30	Fine sandy loam, silt loam, mucky sandy loam, gravelly loam	CL, ML, SC, SM 	A-1, A-2, A-4 	0 	0-15 	60-100 	50-100 	30-100 	15-85 	0-30 	3-10
	30-60	Sand, very gravelly loamy fine sand, gravelly coarse sand, fine sand	SP-SM, GP, SM, SP 	A-1, A-2, A-3 	0 	0-15 	30-100 	25-100 	7-95 	1-50 	0-14 	NP

Classification Fragments Percentage passing Map symbol Depth USDA texture sieve number --|Liquid| Plasand >10 3-10 limit | ticity soil name Unified AASHTO inches inches 4 10 40 200 index In Pct Pct Pct 557B: Shawano-----0-2 Fine sand SM A-2 0 0 100 100 65-80 20-35 0-18 NP-1 2-4 Fine sand SM A-2 0 0 100 100 65-80 20-35 0-17 NP-1 4-26 Fine sand SM A-2 0 0 100 100 65-80 20-35 0-17 NP-1 26-60 Fine sand SM A-2 0 0 100 100 65-80 20-35 0-17 | NP-1 557C: Shawano-----0-2 Fine sand SM A-2 0 0 100 65-80 20-35 0-18 NP-1 100 2-4 Fine sand SM A-2 0 0 100 100 65-80 20-35 0-17 NP-1 Fine sand A-2 0-17 | NP-1 4-26 SM 0 0 65-80 20-35 100 100 26-60 Fine sand SM A-2 0 0 100 100 65-80 20-35 0-17 NP-1 557D: Shawano-----0-2 Fine sand SM A-2 0 0 100 100 65-80 20-35 0-18 NP-1 2-4 Fine sand SM A-2 0 0 65-80 20-35 0-17 NP-1 100 100 4-26 Fine sand SM A-2 0 0 100 100 65-80 20-35 0-17 NP-1 26-60 Fine sand SM A-2 0 0 100 100 65-80 20-35 0-17 | NP-1 586A:

A-4

A-7

A-2-4

A-2-4

0

0

0

0

0

0

0

0

100

95-100|93-100|60-70 |30-40

|97-100|90-100|75-95

|97-100|50-70 | 5-30

|97-100|50-70 | 5-15 |

0-27 NP-4

0-25 NP-7

0-25 NP-7

36-59

58-86

Chelmo-----

Haplosaprists.
Psammaquents.

600A.

0-9

9-24

24-34

34-80 | Sand

Sandy loam

Stratified

loamy sand to sandy

Clay

loam

SM

CH

SC-SM, SM

SC-SM, SM

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif	ication	Fragi	ments		rcentage sieve n	_	_	 Liquid	 Plas-
and					>10	3-10	l				limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct					Pct	
615B:			 			 	 	 	 			
Cress	0-3	Sandy loam	SC, SM	A-2-4, A-4	0	0-5	85-100	80-100	55-80	25-45	0-28	NP-9
	3-15 	Sandy loam, fine sandy loam	SC, SM	A-2-4, A-4 	0 	0-5 	 85-100 	80-100 	55-80 	25-45	0-28	NP - 9
	15-31 	Loamy sand, coarse sand, gravelly sand, very gravelly loamy sand	SM, SP-SM 	A-3 	0 	0-5 	55-100 	50-95 	20-75 	0-30	0-21 	NP - 4
	31-36	Gravelly loamy sand, coarse sand, gravelly sand, very gravelly loamy sand	İ	A-3 	 	 0-5 	 55-100 	 50-100 	 20-75 	0-30	0-21 	 NP - 4
	36-60 	Stratified sand to very gravelly coarse sand	GP, GP-GM, SP, SP-SM 	A-1, A-2, A-3 	0	0-5 	30-100 	25-95 	 15-65 	0-15	0-14 	NP
615C:					 		! 	İ		İ		
Cress	0-3	Sandy loam	SC, SM	A-2-4, A-4	0	0-5	85-100	80-100	55-80	25-45	0-28	NP-9
	3-15 	Sandy loam, fine sandy loam	SC, SM 	A-2-4, A-4 	0 	0-5 	85-100 	80-100 	55-80 	25-45 	0-28 	NP - 9
	15-31 	Loamy sand, coarse sand, gravelly sand, very gravelly loamy sand	SM, SP-SM 	A-3 	0 	0-5 	55-100 	50-95 	20-75 	0-30	0-21 	NP - 4
	31-36	Gravelly loamy sand, coarse sand, gravelly sand, very gravelly loamy sand	 	A-3 	0 	0-5 	 55-100 	50-100 	 20-75 	0-30	0-21	NP - 4
	36-60 	Stratified sand to very gravelly coarse sand	GP, GP-GM, SP, SP-SM 	A-1, A-2, A-3 	0 	0-5 	30-100 	25-95 	15-65 	0-15 	0-14	NP

Map symbol	Depth	USDA texture	Classi	fication	Frag	ments		rcentag sieve n	e passi: umber	ng	 Liquid	 Plas-
and					>10	3-10	i				limit	
soil name		İ	Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct	[Pct	
615D:			 		 	 			 			
Cress	0 - 3	Sandy loam	SC, SM	A-2-4, A-4	0	0-5	85-100	80-100	55-80	25-45	0-28	NP-9
	3-15	Sandy loam, fine sandy loam	SC, SM 	A-2-4, A-4 	0 	0-5 	85-100 	80-100 	55-80 	25-45 	0-28	NP - 9
	15-31	Loamy sand, coarse sand, gravelly sand, very gravelly loamy sand	SM, SP-SM 	A - 3 	0	0-5	55-100 	50-95	20-75	0-30	0-21	NP - 4
	31-36	Gravelly loamy sand, coarse sand, gravelly sand, very gravelly loamy sand	 	A-3	0 	0-5 	 55-100 	50-100 	20-75 	0-30	0-21	NP - 4
	36-60	Stratified sand to very gravelly coarse sand	GP, GP-GM, SP, SP-SM 	A-1, A-2, A-3	 	0-5	30-100 	 25-95 	 15-65 	0-15 	0-14	NP
620C:			 	I	 		 	l İ	 	l I		
Lundeen	0-3	Silt loam	CL-ML, CL	A-4	0-7	0-15	90-100	85-100	80-100	70-90	21-32	4-9
	3-16	Silt loam	CL-ML, CL	A-4	0-7	0-15	90-100	85-100	80-100	70-90	21-30	4-9
	16-33	Silt loam	CL-ML, CL	A-4	0-7	0-15	90-100	85-100	80-100	70-90	20-28	4-9
	33-80	Bedrock						ļ		ļ		
Haustrup	0 - 4	Silt loam	CL, CL-ML	 A-4	0-7	0-15	 90-100	 85-100	 80-100	 70-90	21-32	 4-9
	4-16	Silt loam	CL-ML, CL	A-4	0-7	0-15	90-100	85-100	80-100	70-90	21-30	4 - 9
	16-80	Bedrock										
Rock outcrop	0-60	Unweathered	 		 	 	 	 	 	 	 	

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif	ication	Fragi	ments		_	e passi: umber	ng	 Liquid	 Plas-
and	i	İ			>10	3-10	i				limit	ticity
soil name		İ	Unified	AASHTO	inches	inches	4	10	40	200	Ï	index
	In				Pct	Pct					Pct	
621A:				 								
Bjorkland	0-2	Peat	PT	A-8	0	0	100	100				
	2-8	Muck	PT	A-8	0	0	100	100				
	8-14 	Fine sand	SC-SM, SP-SM,	A-3, A-2-4 	0 	0 	100 	98-100 	50-90 	5-35 	0-20	NP - 4
	14-25 	Fine sand, sand, loamy sand, loamy fine sand	SC-SM, SP-SM, SM 	A-3, A-2-4 	0 	0 	100 	98-100 	50-90 	5-35 	0-20	NP - 4
	25-34 	Loamy fine sand, loamy sand, fine sand, sand	SP-SM, SC-SM, SM	A-2-4, A-3 	0 	0 	100 	98-100 	50-90 	5-35 	0-22	NP - 5
	34-38	Clay, silty	CH	A-7, A-7-6	, 0	 0 	100	98-100	90-100	75-95	58-86	36-59
	38-80	Clay, silty clay	CH 	 A-7-6, A-7 	0	0	100	98-100	90-100	75-95	58-86	36-59
623A:				 	 	 	 	 	 	 		
Capitola	0-5	Muck	PT	A-8	0	0	100	100	100	100		NP
	5-7	Silt loam, loam		A-4	0-5	0-7			60-100		23-26	6-8
	7-22 	Silt loam, loam, sandy loam, fine sandy loam	CL-ML, SC-SM, CL, ML, SC, SM	A-2-4, A-4 	0-5 	0-7 	80-100 	75-100 	45-100 	20-90 	0-28 	NP - 9
	22-33	Sandy loam, fine sandy loam, gravelly loam	İ	A-1-b, A-2-4, A-4 	0-5 	0-7 	60-100 	50-90 	30-90 	15-70 	0-26 	NP - 8
	33-60	Sandy loam, fine sandy loam, gravelly sandy loam	 SM, SC-SM 	A-1-b, A-2-4 	0-5 	0-7 	60-100 	 50-90 	30-60 	 15-35 	0-21 	NP-4

Map symbol	Depth	USDA texture	Classif	ication	Fragi	ments		_	e passi	ng	 Liquid	Plas-
and	_				>10	3-10					limit	
soil name		İ	Unified	AASHTO	inches	inches	4	10	40	200	İ	index
	In	!	!		Pct	Pct	ļ .	ļ	!	ļ	Pct	!
624A:				 		 		ļ		ļ i		
Ossmer	0-4	Silt loam	CL-ML, ML	 A-4	0	 0-7	 95-100	 90-100	70-100	 65-85	18-25	 3-7
000000	4-6	Silt loam	CL-ML, ML	A-4	0	0-7			70-100		1	NP-7
	6-11	Silt loam	CL, CL-ML, ML	1	0	0-7			70-100		1	NP-9
	11-26	Silt loam	CL, CL-ML, ML		0	0-7			70-100		1	NP-9
	26-34	Loam, sandy	SC-SM, CL-ML,	A-1, A-2, A-4	0	0-7	55-100	50-100	30-95	15-80	0-28	NP-9
		loam, gravelly sandy loam			į į	j I	j I	j I	į į	j I	į į	
	34-38	Sandy loam,	CL, CL-ML,	A-1, A-2, A-4	0	0-7	55-100	50-100	30-95	15-80	0-28	NP-9
		gravelly sandy	ML, SC,	İ	į	į	į	į	İ	į	į	j
		loam, loam	SC-SM, SM									
	38-60	Stratified sand	•	A-1, A-2, A-3	0	0-7	45-100	40-95	15-65	0-15	0-14	NP
		to very	SP, SP-SM		ļ		!	ļ	ļ	ļ		
		gravelly								!		ļ
		coarse sand		 								
631A:			 	 		 	 				 	l I
Giese	0-1	Muck	 PT	 A-8	0	0	100	100				
	1-6	Silt loam	ML	A-4	1-2	0-3	95-100	90-100	80-100	65-90	27-49	6-10
		Silt loam,	CL, CL-ML	A-2-4, A-4	0-2	0-3		1	55-100	1	20-30	4-11
		loam, sandy	İ	İ	İ	İ	į	İ	İ	İ	İ	į
		loam, fine	İ		ĺ	ĺ	ĺ	ĺ	İ	ĺ	İ	ĺ
		sandy loam										
	11-24	Silt loam,	CL, CL-ML	A-2-4, A-4	0-2	0-3	95-100	90-100	55-100	25-90	20-30	4-11
		loam, sandy			ļ			ļ		ļ		ļ
		loam, fine										
	24 20	sandy loam	CL, CL-ML	 A-2-4, A-4	0-2	0-3	 05 100	 00 100	 55-100	125 00	120 20	 4-11
	24-30	loam, silt	CL, CL-ML	A-2-4, A-4	0-2	U-3 	33-100	30-100	33-100	25-90 	20-30	 #-TT
		loam, fine		! 	İ	 	i I	İ	i i	İ		İ
		sandy loam		! 								i
	30-36	Fine sandy	SC, SC-SM	A-1-b, A-2-4,	0-2	0-7	75-100	70-95	40-85	20-55	18-28	4-10
		loam, sandy	İ	A-4	İ	İ	į	İ	İ	İ	İ	į
		loam, gravelly	İ		ĺ	ĺ	ĺ	ĺ	İ	ĺ	İ	ĺ
		sandy loam,										
		gravelly fine										
		sandy loam										
	36-70	Fine sandy	SC-SM, SC	A-1-b, A-2-4,	0-2	0-7	75-100	70-95	40-85	20-55	18-28	4-10
		loam, sandy	ļ I	A-4		 						
		loam, gravelly sandy loam,	 	 	l I	 	 	l I	l I	l I	 	l I
		gravelly fine	! 	 	i I	 	 	i i	l I	İ		l I
		sandy loam		! 	İ	 	i I	İ	i i	İ		İ
	70-80	Fine sandy	SC, SC-SM	A-1-b, A-2-4,	0-2	0-7	75-100	70-95	40-85	20-55	18-28	4-10
		loam, sandy	İ	A-4	İ	İ	İ	İ	İ	İ	İ	İ
j		loam, gravelly			[
		sandy loam,								[
		gravelly fine	!		ļ	ļ	ļ.	!	!	!		ļ
		sandy loam			ļ			ļ		ļ		

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Man grmbal	Donth	HCDA towture	Classi	fication	Fragi	ments		rcentago sieve n	_	-	 T d anud al	 Dlag
Map symbol	Depth	USDA texture		1	_	3-10	'	sieve n	umber		Liquid	
and soil name				1 2 2 2 2 2 2 2	>10			1 10	1 40		limit	. –
soli name		1	Unified	AASHTO		inches	4	10	40	200	<u> </u>	index
	In				Pct	Pct					Pct	ļ
632A:				ļ	!	!		!	!	!		
Aftad		Fine sandy loam	!	A-4	0	0		90-100			1	NP-3
	10-29	Fine sandy	CL-ML, ML,	A-2-4, A-4	0	0	95-100	90-100	45-95	25-75	0-23	NP-6
		loam, very	SC-SM, SM	ļ	ļ				!	!		
ļ		fine sandy			1							
		loam, loam,										
		loamy sand										
	29-36		CL, ML, SC,	A-4	0	0	95-100	90-100	65-95	40-75	18-26	NP-8
		loam, very	SM									
		fine sandy										
		loam, sandy										
		loam, loam										
	36-41	Fine sandy	CL, ML, SC,	A-4	0	0	95-100	90-100	65-95	40-75	18-26	NP-8
		loam, very	SM									
		fine sandy										
		loam, sandy										
		loam, loam										
1	41-60	Stratified fine	CL-ML, ML,	A-4	0	0	95-100	90-100	60-95	35-75	0-25	NP-7
		sand to silt	SC-SM, SM									
632B:												
Aftad	0-10	Fine sandy loam	SM	A-4	0	0	95-100	90-100	65-90	35-50	0-18	NP-3
	10-29	Fine sandy	CL-ML, ML,	A-2-4, A-4	0	0	95-100	90-100	45-95	25-75	0-23	NP-6
		loam, very	SC-SM, SM									
		fine sandy										
		loam, loam,										
		loamy sand										
į	29-36	Fine sandy	CL, ML, SC,	A-4	0	0	95-100	90-100	65-95	40-75	18-26	NP-8
į		loam, very	SM	İ	ĺ	İ	ĺ	ĺ	ĺ	İ	İ	ĺ
I		fine sandy										
į		loam, sandy	İ	İ	ĺ	İ	ĺ	ĺ	ĺ	İ	İ	ĺ
į		loam, loam	İ	İ	ĺ	İ	ĺ	ĺ	ĺ	İ	İ	ĺ
į	36-41	Fine sandy	CL, ML, SC,	A-4	0	0	95-100	90-100	65-95	40-75	18-26	NP-8
į		loam, very	SM	j	j	į	İ	j	į	İ	İ	İ
į		fine sandy	İ	j	j	į	İ	j	į	İ	İ	İ
į		loam, sandy	İ	j	j	į	İ	j	į	İ	İ	İ
į		loam, loam	İ	i	į	i	İ	İ	İ	i	İ	İ
i	41-60	Stratified fine	CL-ML, ML,	A-4	0	0	95-100	90-100	60-95	35-75	0-25	NP-7
i		sand to silt	SC-SM, SM	i	i	i	İ	İ	i	i	i	İ
'		1		1	1	1	:	:	:	1	1	:

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classi	fication	Frag	ments		rcentago sieve n	_	-	 Liquid	 Plas-
and				1	>10	3-10	i				limit	
soil name		İ	Unified	AASHTO	inches	inches	4	10	40	200	Ï	index
	In				Pct	Pct					Pct	
632C:			 						 			
Aftad		Fine sandy loam	1	A-4	0	1				35-50	1	
	10-29 	Fine sandy loam, very fine sandy	CL-ML, ML, SC-SM, SM 	A-2-4, A-4 	0 	0 	95-100 	90-100 	45-95 	25-75 	0-23	NP - 6
		loam, loam, loamy sand Fine sandy	 CL, ML, SC,	 A-4		 0					 18-26	 ND 0
	23-30	loam, very fine sandy loam, sandy loam, loam	SM			0 	 					NF - 6
	36-41 	Fine sandy loam, very fine sandy loam, sandy	 CL, ML, SC, SM 	A-4 	 0 	 0 	 95-100 	 90-100 	 65-95 	 40-75 	 18-26 	 NP - 8
	 41-60 	loam, loam Stratified fine sand to silt	 CL-ML, ML, SC-SM, SM	 A-4 	 0 	 0 	 95-100 	 90-100 	 60-95 	35-75	 0-25 	 NP-7
634C:			 									
Drylanding	0-4 	Channery silt loam	CL-ML, CL 	A-4 	2-10	25-45	70-95 	65-90 	60-85 	50-80 	18-39	2-17
		Very channery silt loam, channery loam, extremely channery fine sandy loam, extremely channery loam, very channery fine sandy loam	CL, CL-ML 	A-4 	2-15 	 	 	 	40-80 	25-70 	16-36 	2-17
	12-80	Bedrock										

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classi	fication	Frag	ments	Pe	ercentag sieve n	ge passi umber	-	 Liquid	 Plas-
and					>10	3-10	İ				limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct					Pct	
634C:	 				1		 					
Beartree	0-1	Muck	PT		0	0	100	100				
	1-4 	Channery silt	CL-ML, CL	A-6	2-10	15-25 	85-95 	80-90	65-85	55-80	27-49	6-17
	4-16 16-80	Extremely channery silt loam, very channery silt loam, extremely channery loam, very channery loam Bedrock	CL-ML, CL 	A-6 	5-20	40-60 90 	75-85 	60-80	45-75 	22-40	6-17 	
Rock outcrop.	 	 										
635C:	 		 				 					
Drylanding	0-4	Channery silt	CL-ML, CL	A-4	2-10	25-45	70-95	65-90	60-85	50-80	18-39	2-17
	4-12 	silt loam, channery loam, extremely channery fine sandy loam, extremely channery loam, very channery fine sandy loam	 	A - 4 	2-15	35-65 	65-90	60-85 	40-80 	25-70	16-36 	2-17
	12-80 	Bedrock					 					

Map symbol	 Depth	USDA texture	Classif	ication	Fragi	ments		rcentag sieve n	_	-	 Liquid	 Plas-
and					>10	3-10					limit	ticit
soil name		İ	Unified	AASHTO	inches	inches	4	10	40	200	Ï	index
	In	<u> </u>	[İ	Pct	Pct	İ	İ	İ	j i	Pct	İ
635C:			 		 							
Beartree	0-1	Muck	PT	i	0	0	100	100			i	
2002020	1-4	1	CL-ML, CL	A-6				80-90	65-85	55-80	27-49	6-17
		loam, very										
		channery silt		i	İ	<u> </u>	i	i	i	i		i
		loam, very	İ	i	İ	i	i	i	i	i	i	i
		channery loam		İ	İ	i	i	i	i	i	i	i
	4-16	Extremely	CL-ML, CL	A-6	5-20	40-60	80-90	75-85	60-80	45-75	22-40	6-17
		channery silt	İ	İ	İ	i	i	i	i	i	i	į
		loam, very	İ	İ	į	į	i	i	i	i	İ	į
		channery silt	İ	İ	j	į	į	į	İ	İ	İ	į
		loam,		İ	ĺ	İ	İ	İ	İ	İ	İ	ĺ
		extremely		İ	ĺ	İ	İ	İ	İ	İ	İ	ĺ
		channery loam,										
		very channery										
		loam										
	16-80	Bedrock										
Rock outcrop.			 		 	 		 				
648B:			 		! 					ì		
Sconsin	0-4	Silt loam	CL-ML	A-4	0	0-7	92-100	91-100	81-94	64-76	24-32	5-9
	4-5	Silt loam	CL-ML, ML	A-4	0	0-7	92-100	91-100	79-96	62-77	17-28	2-9
	5-10	Silt loam	CL-ML, ML	A-4	0	0-7	92-100	91-100	79-96	62-77	17-28	2-9
	10-18	Silt loam	CL-ML, ML	A-4	0	0-7	92-100	91-100	79-96	62-77	17-28	2-9
	18-27	Silt loam	CL-ML, ML	A-4	0	0-7	92-100	91-100	79-96	62-77	17-28	2-9
	27-34	Loam, gravelly	CL, ML, SC,	A-2, A-4	0	0-15	50-100	45-100	37-92	26-67	18-29	3-11
		sandy loam,	SM									
		very gravelly										
		fine sandy										
		loam										
	34-38		SC, SM	A-1-b, A-2,	0	0-15	54-100	50-100	36-82	17-43	17-27	3-10
		gravelly loam,		A-4								
		very gravelly		!			!		!	!		!
		fine sandy			ļ		!		!	-		
		loam										
	38-60	Stratified sand		A-1, A-2, A-3	0	0-15	30-96	27-95	15-58	3-15	0-20	NP-3
		to very	SP, SP-SM		Į.		1			1		
		gravelly			Į.		1			1		
		coarse sand					1	1	1	-		
		1	I	1	1	1	1	1	1	1	1	I

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif	ication	Fragi	ments		rcentage sieve n	_	-	 Liquid	 Plas-
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct				1	Pct	
669D:			 	 		 	 	 	 			
Fremstadt, stony	0-5	Loamy sand	SC-SM, SM	A-2-4	0-3	0-15	75-100	70-95	35-70	10-30	0-28	NP-7
j	5-33	Loamy sand,	SC-SM, SM	A-2, A-3,	0-3	0-15	75-100	70-95	30-70	5-25	0-24	NP-6
		sand		A-1-b								
	33-37	Sandy loam, loamy sand, gravelly loamy sand	SC, SC-SM, SM 	A-1-b, A-2 	0-3	0-15 	70-100 	65-95 	30-70 	15-35 	16-27 	2-10
	37-45	Loamy sand, sandy loam, gravelly loamy sand	 SC, SC-SM, SM 	A-1-b, A-2 	0-3	0-15 	70-100 	65-95 	30-70 	15-35	0-27	 NP-10
	45-70	Loamy sand, gravelly loamy sand	SC-SM, SM	 A-1-b, A-2 	0-3	 0-15 	 70-100 	 65-95 	 30-70 	15-25	0-23	 NP - 6
	70-80	Loamy sand, gravelly loamy sand	SC-SM, SM 	A-1-b, A-2 	0-3	0-15 	70-100 	65-95 	30-70 	15-25 	0-23	NP - 6
Pomroy	0-3	Loamy sand	SM	A-2-4	0	0-7	100	75-100	40-70	15-30	0-26	NP-7
-	3-30	Sand, loamy	SP-SM, SM	A-3, A-2-4	0	0-7	100	75-100	40-70	5-30	0-25	NP-7
j	30-45	Sandy loam	SM, SC-SM, SC	A-2	0	0-7	80-95	75-90	45-65	25-35	16-30	2-12
	45-80	Sandy loam	SM, SC-SM, SC	A-2	0	0-7	80-95	75-90	45-65	25-35	0-27	NP-10
671B: Spoonerhill,		 	 	 		 	 	 	 		 	
stony	0-3	Sandy loam	SC, SC-SM, SM	A-2, A-4	0-2	0-15	85-100	80-95	55-75	25-40	0-20	NP-10
	3-12	Gravelly sandy loam, loamy sand, gravelly loamy sand	İ	A-1-b, A-2, A-4 	0 	0-15 	60-100 	50-95 	35-75 	15-40 	0-20 	NP-10
	12-16	Gravelly loamy sand, loamy sand, sandy loam	SC, SC-SM, SM, SP-SM 	A-1-b, A-2 	0 	0-15 	60-100 	50-95 	35-75 	10-30 	0-20 	NP - 10
	16-34	Loamy sand, sand, gravelly loamy sand	SC, SC-SM, SM, SP-SM	A-1-b, A-2 	0 	0-15 	60-100 	50-95 	35-75 	10-25 	0-20 	NP-10
	34-46	Sand, loamy sand, gravelly loamy sand	SC, SC-SM, SM, SP-SM	A-1-b, A-2 	0	0-15 	60-100 	50-95 	35-75 	10-25 	0-20 	NP-10
	46-80	Gravelly loamy sand, loamy sand, sand	SC, SC-SM, SM, SP-SM	A-1-b, A-2 	0	0-15 	60-100 	50-95 	35-75 	10-25 	0-20	NP-10

Table 22.--Engineering Index Properties--Continued

Map symbol and	Depth	USDA texture	Classif 	ication	Fragi	ments		_	e passi umber	ng	 Liquid limit	 Plas- ticity
soil name			Unified	AASHTO	1	inches	4	10	40	200		index
	In		[Pct	Pct					Pct	
671B:			 	 								
Spoonerhill	0-3	Sandy loam	SC, SC-SM, SM	A-2, A-4	0	0-15	85-100	80-95	55-75	25-40	0-20	NP-10
	3-12	Gravelly sandy loam, loamy sand, gravelly loamy sand	İ	A-1-b, A-2, A-4 	0 	0-15 	60-100 	50-95 	35-75 	15-40 	0-20 	NP-10
	12-16	Gravelly loamy sand, loamy sand, sandy loam	SC, SC-SM, SM, SP-SM	A-1-b, A-2 	o 	0-15 	 60-100 	50-95 	35-75 	10-30 	0-20	NP-10
	16-34	Loamy sand, sand, gravelly loamy sand		A-1-b, A-2 	0	0-15 	60-100 	 50-95 	35-75 	10-25 	0-20	NP-10
	34-46	Sand, loamy sand, gravelly loamy sand	SC, SC-SM, SM, SP-SM	A-1-b, A-2 	0 	0-15 	60-100 	 50-95 	35-75 	10-25 	0-20	NP-10
	46-80	Gravelly loamy sand, loamy sand, sand	SC, SC-SM, SM, SP-SM	A-1-b, A-2 	0 	0-15	60-100 	50-95 	35-75	10-25	0-20	NP-10
706A:			 	 		 	 	 	 	 		
Winterfield	0-7	Very fine sandy loam	SC-SM, SM	A-4	0	0 	100	95-100	85-100 	45-60	0-25	NP - 7
	7-60	Sand, gravelly sand, gravelly loamy sand, loamy sand		A-1-b, A-2-4, A-3 	0 	0 	60-100 	60-100 	40-75 	5-15 	0-14 	NP

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classi	fication	Frag	ments	Pe	-	ge passi number	-	 Liquid	 Plas
and		İ		1	>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In			1	Pct	Pct					Pct	
706A:	 											
Totagatic	0-4	Fine sandy loam	CL, ML, SC,	A-4	0	0 	100	100	70-85	40-55	0-30	NP-10
	4-8 	Loamy fine sand, loamy sand, fine	SM 	A-2 	0 	o 	100	100	50-80	20-35	0-23	NP - 6
	 8-17 	sand, sand sine sand, sand, loamy sand, loamy	 sm 	 A-2 	0	 0 	100	 100 		5-45	0-23	 NP-6
 	 17-28 	fine sand Fine sand, sand, loamy	 SM 	 A-2, A-3	0	 	100	100	50-80	5-35	0-23	 NP-6
	 28-46 	sand, coarse sand, mucky sand Sand, fine sand, loamy	 SM	 A-2, A-3	0	 0	100	 100	 50-80	 5-35	 0-23	 NP-6
		sand, coarse sand, mucky sand	 - -		 	 				 	 	
4	46-70 	Sand, coarse sand, loamy sand, fine sand, loamy fine sand	SM 	A-2, A-3 	0 	0 	100	100 	50-80 	5-45 	0-23	NP - 6
	70-80	Sand, coarse sand, fine sand, loamy sand, loamy fine sand	SM 	A-2, A-3	0	0 	100	100	50-80	5-45	0-23	NP - 6

0-2 | 2-3 | 90-100 | 85-98 | 55-85 | 25-55 | 16-28 | 2-10

Map symbol and	 Depth	USDA texture	Classif	ication	Fragi	ments		_	ge passi number	-	 Liquid	 Plas- ticity
soil name			Unified	AASHTO		inches	4	10	40	200		index
	In				Pct	Pct					Pct	
715A:	 			 		 	 	 		l I		
Mora	0-4	Silt loam	CL, CL-ML, ML	A-4	0-2	0-3	90-100	85-98	75-98	65-90	21-36	4-10
	4-9	Fine sandy	CL-ML, ML	A-4	0-2	0-3	90-100	85-98	55-98	25-90	17-28	2-7
		loam, silt										
		loam, very										
		fine sandy										
		loam										
	9-14	Sandy loam,	CL, SC	A-4, A-2	0-2	0-3	90-100	85-98	55-95	25-75	18-30	4-12
		fine sandy										
		loam, loam										
	14-36	1	CL, SC	A-2, A-4	0-2	0-3	90-100	85-98	55-95	25-75	20-30	6-12
		fine sandy										
		loam, loam		ļ			!	!	!			!
	36-46	Sandy loam,	SC-SM, SC, SM	A-2, A-4	0-2	0-3	90-100	85-98	55-85	25-55	16-28	2-10
		fine sandy			ļ							!
		loam										
	46-80	Sandy loam,	SC-SM, SC, SM	A-2	0-2	0-3	90-100	85-98	55-85	20-55	16-28	2-10
		fine sandy										
	 	loam		l I		 						
717B:	 					 		 		l		
Milaca	0-4	Silt loam	CL, CL-ML, ML	A-4	0-2	0-3	90-100	85-98	75-98	65-90	21-36	4-10
	4-13	Fine sandy	CL-ML, ML	A-4	0-2	0-3	90-100	85-98	55-98	25-90	17-28	2-7
		loam, silt										
		loam, very										
		fine sandy										
		loam										
	13-17	Sandy loam,	CL, SC	A-4, A-2	0-2	0-3	90-100	85-98	55-95	25-75	18-30	4-12
		fine sandy		1								
		loam, loam		1								
	17-43	Sandy loam,	CL, SC	A-2, A-4	0-2	0-3	90-100	85-98	55-95	25-75	20-30	6-12

| fine sandy | loam, loam 43-80 |Sandy loam,

fine sandy loam

SC, SC-SM, SM A-2

Table 22.--Engineering Index Properties--Continued

			Classif	ication	Fragi	ments	Pe	rcentag	e passi	ng		
Map symbol	Depth	USDA texture	ļ		-		1	sieve n	umber		Liquid	
and					>10	3-10		1	1	1	limit	
soil name			Unified	AASHTO		inches	4	10	40	200		index
	In				Pct	Pct					Pct	
717C:	 		 	 	l I	 	 	 		 		
Milaca	0-4	Silt loam	CL, CL-ML, ML	 <u>a - 4</u>	0-2	0-3	 90 - 100	 85-98	 75-98	65-90	21-36	4-10
MIIdod		1		A-4	0-2	0-3			55-98			2-7
	1-15 	loam, silt	CH-MH, MH		0-2	U-3 	JU-100 	03-30	33-30	23-30	17-20	2 -7
	l I	loam, very	! 	 		 	 	l I	<u> </u>	İ		i i
	l I	fine sandy	! 	 		 	 	l I	<u> </u>	İ		i i
	l I	loam	! 	 		 	 	l I	<u> </u>	İ		i i
	 13-17	1	CL, SC	A-4, A-2	0-2	0-3	90-100	85-98	55-95	25-75	18-30	4-12
	10 1/	fine sandy	52, 50	<i>,</i> 	" -							
	! 	loam, loam	 	 		 	 	 	i	İ		
	17-43		CL, SC	A-2, A-4	0-2	0-3	90-100	85-98	55-95	25-75	20-30	6-12
		fine sandy			-							
	! 	loam, loam		 	i	<u> </u>	! 	i	i	i		i
	43-80		SC, SC-SM, SM	A-2	0-2	2-3	90-100	85-98	55-85	25-55	16-28	2-10
		fine sandy				İ				i		i
	İ	loam	! 	İ	i	İ	İ	İ	i	İ	i	İ
	İ	İ		İ	i	İ	İ	İ	i	i	i	İ
720F:	j	İ	j	İ	j	į	į	į	į	į	İ	į
Haustrup	0 - 4	Silt loam	CL, CL-ML	A-4	0-7	0-15	90-100	85-100	80-100	70-90	21-32	4-9
	4-16	Silt loam	CL-ML, CL	A-4	0-7	0-15	90-100	85-100	80-100	70-90	21-30	4-9
	16-80	Bedrock										
Lundeen		Silt loam	1	A-4	0-7	1			80-100		21-32	4-9
	3-16	Silt loam	CL-ML, CL	A-4	0-7	1			80-100			4-9
		Silt loam	CL-ML, CL	A-4	0-7				80-100			4-9
	33-80	Bedrock										
Rock outcrop	 0-60	Unweathered	 	 		 	 	 				
		bedrock		 	i	<u> </u>	! 	i	i	i		i
	İ				i	İ	İ	i	i	İ	i	İ
726B:	İ	İ	İ	İ	i	İ	j	i	İ	i	İ	į
Sissabagama	0-10	Loamy sand	SC-SM, SM	A-2-4	0	0	90-100	80-100	55-80	15-25	0-20	NP-6
	10-31	Sand, loamy	SC-SM, SM	A-2-4, A-3	0	0	90-100	80-100	55-75	5-20	0-23	NP-6
	İ	sand	İ		İ	İ	İ	İ	İ	İ	İ	İ
	31-45	Sand, loamy	SM	A-2, A-3	0	0	90-100	80-100	55-75	5-20	0-20	NP-6
	İ	sand	İ		İ	İ	İ	İ	İ	İ	İ	İ
	45-80	Stratified very	CL-ML, CL,	A-4	0	0	95-100	90-100	90-100	65-80	15-30	2-12
		fine sand to	SC-SM									
		silt										

Map symbol	 Depth	USDA texture	Classif	ication	Fragi	ments		_	e passi umber	_	 Liquid	 Plas-
and	į	İ		1	>10	3-10	i					ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In	!			Pct	Pct	!	!	ļ	!	Pct	ļ
742B:	 			 		 	 	 				
Milaca	0-4	Sandy loam	SM, SC-SM, SC	A-4	0-2	0-3	90-100	85-98	55-70	25-40	18-35	2-10
	4-13	Fine sandy	SC-SM, CL-ML,	A-4	0-2	0-3	90-100	85-98	55-95	25-75	17-28	2-7
	 -	loam, sandy	ML	j I	Ì	 	j I	j I	į	į į	j I	j I
	13-17	Sandy loam,	CL, SC	A-4, A-2	0-2	0-3	90-100	85-98	55-95	25-75	18-30	4-12
	j	fine sandy	j	İ	i	į	į	İ	İ	İ	İ	İ
		loam, loam										
	17-43	Sandy loam,	CL, SC	A-2, A-4	0-2	0-3	90-100	85-98	55-95	25-75	20-30	6-12
	 	fine sandy loam, loam		 		 		[[
	43-80	Sandy loam,	SC, SC-SM, SM	 A-2	0-2	2-3	90-100	85-98	55-85	25-55	16-28	2-10
	 	fine sandy				 	 	 				
742C:	j i			 -	į	 	į	į į	į	Ì	į	İ
Milaca	0-4	Sandy loam	SM, SC-SM, SC	A-4	0-2	0-3	90-100	85-98	55-70	25-40	18-35	2-10
	4-13	Fine sandy	SC-SM, CL-ML,	1	0-2	0-3				25-75	1	2-7
	j I	loam, sandy	ML	j I	İ	 	į į	į I	į į	į	j I	į į
	13-17	Sandy loam,	CL, SC	A-4, A-2	0-2	0-3	90-100	85-98	55-95	25-75	18-30	4-12
	ĺ	fine sandy	İ	ĺ	į	İ	İ	İ	İ	İ	İ	ĺ
		loam, loam										
	17-43	Sandy loam,	CL, SC	A-2, A-4	0-2	0-3	90-100	85-98	55-95	25-75	20-30	6-12
		fine sandy										
		loam, loam										
	43-80	Sandy loam,	SC, SC-SM, SM	A-2	0-2	2-3	90-100	85-98	55-85	25-55	16-28	2-10
	 	fine sandy loam		 		 	 	 				
742D:	i I		İ	i I	į		į	İ	į	Ì	į	į
Milaca	0-4	Sandy loam	SM, SC-SM, SC	 A - 4	0-2	0-3	90-100	 85-98	55-70	25-40	18-35	2-10
		Fine sandy	SC-SM, CL-ML,	1	0-2	0-3				25-75	1	2-7
		loam, sandy	ML		-							i - ·
	ĺ	loam	İ	ĺ	į	İ	İ	ĺ	Ì		İ	ĺ
	13-17	Sandy loam,	CL, SC	A-4, A-2	0-2	0-3	90-100	85-98	55-95	25-75	18-30	4-12
		fine sandy										
		loam, loam										
	17-43	Sandy loam,	CL, SC	A-2, A-4	0-2	0-3	90-100	85-98	55-95	25-75	20-30	6-12
	ļ	fine sandy		<u> </u>	ļ	!	!	ļ	ļ	_		ļ
		loam, loam										
	43-80	Sandy loam,	SC, SC-SM, SM	A-2	0-2	2-3	90-100	85-98	55-85	25-55	16-28	2-10
	 	fine sandy loam		 		 	 	 				

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif:	ication	Frag	ments		_	e passin umber	ng	 Liquid	 Plas-
and					>10	3-10					limit	
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In				Pct	Pct			 		Pct	
755A:			 	 			 	 				
Moppet	0 - 4	Fine sandy loam	CL, CL-ML, SC, SC-SM	A-2-4, A-4 	0 	0 	100 	100 	60-95 	30-65 	21-26	4-8
	4-10	Fine sandy loam, loam, silt loam	CL, ML, SC, SM 	A-4 	0 	0 	100 	100 	75-100 	40-85 	18-28 	3-9
	10-39	Fine sandy loam, loam, silt loam	CL, ML, SC,	A-4 	0 	0 	100 	100 	75-100 	40-85	18-28	3-9
	39-60	Gravelly sand, fine sand, loamy fine sand	SM, SP, SP-SM	A-4, A-2-4, A-1-b	0 	0 	 55-100 	50-100 	 15-95 	2-50 	15-21 	NP - 4
Fordum	0-6	Silt loam	CL, ML, CL-ML	A-4, A-6	0	0-7	80-100	 75-100	70-100	65-85	20-35	3-15
	6-18	Silt loam, fine sandy loam, mucky sandy loam, gravelly loam	CL, ML, SC, SM 	A-1, A-2, A-4 	0 	0-15 	60-100 	50-100 	35-100 	15-85 	0-30	3-10
	18-30	Fine sandy loam, silt loam, mucky sandy loam, gravelly loam	CL, ML, SC, SM 	A-1, A-2, A-4 	0 	0-15 	60-100 	50-100 	30-100 	15-85 	0-30	3-10
	30-60	Sand, very gravelly loamy fine sand, gravelly coarse sand, fine sand		A-1, A-2, A-3	0 	0-15 	30-100 	25-100 	7-95 	1-50 	0-14 	NP

Map symbol	Depth	USDA texture	Classif	icatio	on		Frag	ments		rcentag	_	_	 Liquid	 Plas-
and	-						>10	3-10	İ				limit	
soil name		İ	Unified	j Az	ASHTO		inches	inches	4	10	40	200	i	index
	In	Ī		İ			Pct	Pct	l	İ	Ī	İ	Pct	İ
											!			
771A:														
Lenroot		Loamy sand		A-1,			0	0		75-100			1	NP-10
	4-8	Loamy sand, coarse sand, gravelly sand,	İ	A-1, 	A-2		0 	0	60-95 	50-90	25-70	5-25	0-23	NP - 6
		gravelly loamy coarse sand		i i			 	 	 	 	i i			
	8-14	Loamy coarse	SM, SP-SM	A-1,	A-2,	A-3	0	0	60-95	50-90	25-70	5-25	0-23	NP-6
		sand, coarse sand, gravelly	j I	j I			 	 	i I	j I	j I	į į	j I	j I
		sand, loamy	j I	j I			 		j I	j I	j I	j I	j I	
	14-21	Gravelly coarse	•	A-1,	A-2,	A-3	0	0	60-95	50-90	25-65	2-15	0-19	NP-2
		sand, gravelly		!						[
	01 00	sand, sand												
	21-80	Stratified coarse sand to	SM, SP-SM	A-2,	A-1,	A-3	0	0	60-95	50-90	25-65	0-15	0-19	NP-2
		gravelly	 				 	 	 	İ		i		i
		coarse sand	İ	İ				i	İ	İ	i	i		i
j		İ	į	İ			İ	į	į	İ	į	j	j	į
812B:														
Mora	0 - 4	Sandy loam	SM, SC-SM, SC				0-2				1	25-40	1	2-10
	4-9	Fine sandy	SC-SM, SM,	A-4			0-2	0-3	90-100	85-98	55-95	25-75	17-28	2-7
		loam, sandy	CL-ML, ML	l i			 	 	 	l I				
	9-14	Sandy loam,	CL, SC	A-4,	A-2		0-2	0-3	 90 - 100	 85-98	 55-95	25-75	18-30	4-12
	, ,	fine sandy					0 2	0 3				23 /3		
		loam, loam	İ	i				i	İ	İ	i	i	İ	i
j	14-36	Sandy loam,	CL, SC	A-2,	A-4		0-2	0-3	90-100	85-98	55-95	25-75	20-30	6-12
		fine sandy												
		loam, loam												
	36-46	Sandy loam,	SC-SM, SC, SM	A-2,	A-4		0-2	0-3	90-100	85-98	55-85	25-55	16-28	2-10
		fine sandy loam	l I	 					 					
	46-80	Sandy loam,	SC-SM, SC, SM	 A - 2			 0-2	0-3	 90 - 100	 85-98	 55-85	20-55	16-28	2-10
	10 00	fine sandy					0 2	0 3				20 33		2 10
		loam	İ	İ			İ	į	İ	į	i	İ	İ	İ
825A:				 										
Meehan	0-4	Sand	SM	 A-2			 0	 0	 95-100	 90-100	60-75	5-15	0-14	 NP-1
	4-29	Sand	SM	A-2			0	0		90-100		5-15	0-14	1
	29-60		SM	A-2,	A-3		0	0		90-100		5-15	0-14	1
										[

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

			Classif	ication	Frag	ments		rcentag				
Map symbol	Depth	USDA texture				1 2 10		sieve n	umber			Plas-
and soil name			Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200	limit	ticity
5011 1141110	In				Pct	Pct	<u> </u>	=-	1	1 200	Pct	
į		İ	İ	į	İ	İ	j	İ	İ	İ	İ	į
896A:									40.50			
Wurtsmith	0-6 6-33	Sand, coarse	SM, SP-SM	A-2 A-1, A-2, A-3	0 0	0		75-100 80-100	1	5-15 3-15	0-24	NP-2 NP
	0-33	sand, loamy		N-1, N-2, N-3	i	0			23-70	3-13	0-14	142
į		sand	į	j	j	İ	İ	j	İ	İ	İ	İ
	92-60	Sand, coarse	SM, SP, SP-SM	A-1, A-2, A-3	0	0	90-100	80-100	25-70	3-15	0-14	NP
		sand		 		 						
980A:				! 								
Soderbeck	0 - 4	Very gravelly	SM	A-2-4	2-7	15-50	20-60	15-55	15-50	10-40	24-39	5-9
	4 40	loam										
	4-18	Extremely gravelly loam,	SC, GC-GM, SC-SM, GC	A-2-4	2-7	15-50	15-60	10-55	5-50	1-35	22-30	7-12
		very gravelly	bc-bm, gc				i					
į		sandy loam,	į	j	İ	İ	İ	İ	İ	j	İ	İ
		extremely			ļ			ļ				
		cobbly sandy loam, very		 	 			 				
		cobbly coarse		 	ì		i	ì				
į		sandy loam,	į	j	j	İ	İ	j	İ	İ	İ	İ
		extremely			ļ		!	ļ				
		gravelly coarse sandy	l I	l I								
		loam		 								
į	18-28	Extremely	GC, GC-GM,	A-2	2-7	15-50	15-60	10-55	5-50	1-35	22-30	7-12
		gravelly	SC, SC-SM									
		coarse sandy loam, very	 	 	 	 		 				
		gravelly sandy					i					
į		loam,	į	j	İ	İ	İ	İ	İ	j	İ	İ
		extremely										
		cobbly sandy loam, very		 		 						
		cobbly coarse			i		i	i		İ		i
į		sandy loam,	į	į	į	İ	į	į	į	į	į	į
		extremely			ļ			ļ				
	28-42	gravelly loam Extremely	 GM	 A-1-a	2-7	30-50	 15-45	10-40	5-30	0-20	0-14	 NP
	20-42	gravelly	GM		2-7				3-30	0-20	0-14	112
į		coarse sand,	į	j	j	j	İ	j	j	j	İ	İ
		extremely										
		gravelly loamy coarse sand,	 	 	 	 		 				
		extremely		 			i					i
İ		gravelly sand,	j	İ	į	İ	İ	į	İ	İ	İ	İ
		extremely										
		cobbly coarse sand,	 	 								
		extremely			ì			ì				
		cobbly loamy	İ	j	İ	İ	İ	İ	į	İ	İ	İ
		coarse sand										
	42-55 55-80	Bedrock Bedrock	SP 	 								
	33-00	Dediock		ļ							!	

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classif:	ication	Fragi	ments		rcentag	_	-	 Liquid	 Plas-
and					>10	3-10	i '					ticity
soil name			Unified	AASHTO		inches	4	10	40	200	.,	index
	In		<u>'</u>		Pct	Pct	İ	İ	İ	i i	Pct	İ
			ļ					[
1070C:									140.60		110 21	
Fremstadt		Sandy loam		A-2	0-3	,	75-100				18-31	2-10 NP-6
	5-33	Loamy sand,	SC-SM, SM	A-2, A-1-b	0-3	0-15	1/3-100	/U-95 	30-75	15-30	0-24	NP-6
	 33_37	Sandy loam,	SC, SC-SM, SM	 A-1-h	0-3	0-15	70-100	 65-95	 30-60	10-40	16-27	2-10
	33 37	loamy sand,	De, be bm, bm	,	0 3	0 13	70 100	03 33	50 00	10 10	1 20 27	2 10
		gravelly loamy	i	! 	İ			<u> </u>	i			i
		sand			i	İ	İ	i	İ	i	İ	i
	37-45	Loamy sand,	SC, SC-SM, SM	A-1-b, A-2	0-3	0-15	70-100	65-95	30-60	10-40	0-27	NP-10
		sandy loam,	İ	İ	į	į	İ	İ	İ	İ	İ	į
		gravelly loamy										
		sand										
	45-70	Loamy sand,	•	A-1-b, A-2	0-3	0-15	70-100	65-95	30-50	10-30	0-23	NP-6
		gravelly loamy					ļ	!	ļ			!
		sand										
	70-80	Loamy sand,	1	A-1-b, A-2	0-3	0-15	70-100	65-95	30-50	10-30	0-23	NP-6
		gravelly loamy		 								
		sand	I I	 	 	 	l I	l I	l I			
Cress	 0-3	Sandy loam	SC, SM	 A-2-4, A-4	0	0-5	85-100	 80-100	 55-80	25-45	0-28	NP-9
01000			1 -	A-2-4, A-4	0	0-5	1		,	25-45	0-28	
		fine sandy			i		İ	İ	İ			i
		loam	İ		i	İ	İ	İ	İ	i	İ	i
	15-31	Loamy sand,	SM, SP-SM	A-3	0	0-5	55-100	50-95	20-75	0-30	0-21	NP-4
j		coarse sand,	İ		İ	İ	İ	ĺ	ĺ	İ	j	İ
		gravelly sand,										
		very gravelly										
		loamy sand										
	31-36	Gravelly loamy	SM, SP-SM	A-3	0	0-5	55-100	50-100	20-75	0-30	0-21	NP-4
		sand, coarse										!
		sand, gravelly										
		sand, very		 								
		gravelly loamy	I	 	1	 	l I	l I	 		1	
	 36-60	Stratified sand	CD CD_CM	 A-1, A-2, A-3	0	0-5	30-100	 25-95	 15-65	0-15	0-14	NP
	30-00 	to very	SP, SP-SM			0-5		25-25	-5-05	0-13	0-14	142
		gravelly						İ		i		i
		coarse sand	i		i		i	i	i	i		i
		İ	i	İ	i	į	į	į	İ	i	İ	į

Table 22.--Engineering Index Properties--Continued

Map symbol	 Depth	USDA texture	Classif	ication	Fragi	ments		rcentag	-	_	 Liquid	 Plas-
and		İ			>10	3-10	i				limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In	[ļ.		Pct	Pct	!	[Ţ	Pct	
1070D:	 		 	 	 	 	 	 	 	1		
Fremstadt	0-5	Sandy loam	SC-SM, SM	A-2	0-3	0-15	75-100	70-95	40-60	25-35	18-31	2-10
	5-33	Loamy sand,	SC-SM, SM	A-2, A-1-b	0-3	0-15	75-100	70-95	30-75 	15-30	0-24	NP - 6
	33-37	Sandy loam, loamy sand, gravelly loamy sand	SC, SC-SM, SM	A-1-b, A-2 	0-3	0-15 	70-100 	65-95 	30-60	10-40	16-27 	2-10
	37-45	Loamy sand, sandy loam, gravelly loamy sand	SC, SC-SM, SM 	A-1-b, A-2 	0-3 	0-15 	70-100 	 65-95 	30-60 	10-40	0-27 	NP-10
	45-70	Loamy sand, gravelly loamy sand	1 -	A-1-b, A-2 	0-3	0-15 	70-100 	65-95 	30-50	10-30	0-23	NP - 6
	70-80	Loamy sand, gravelly loamy sand	SC-SM, SM	A-1-b, A-2 	0-3	0-15	70-100 	65-95 	30-50	10-30	0-23	NP - 6
Cress	0-3	Sandy loam	SC, SM	 A-2-4, A-4	0	0-5	 85-100	 80-100	 55-80	25-45	0-28	 NP-9
	3-15 	Sandy loam, fine sandy loam	SC, SM	A-2-4, A-4	0	0-5	85-100 	80-100 	55-80 	25-45	0-28	NP - 9
	15-31	Loamy sand, coarse sand, gravelly sand, very gravelly loamy sand	SM, SP-SM 	A-3 	0 	0-5 	 55-100 	 50-95 	20-75 	0-30	0-21 	NP - 4
	31-36	Gravelly loamy sand, coarse sand, gravelly sand, very gravelly loamy sand	 	A-3 	0 	0-5	55-100 	50-100 	20-75 	0-30	0-21 	NP - 4
	36-60	Stratified sand to very gravelly coarse sand	GP, GP-GM, SP, SP-SM 	 A-1, A-2, A-3 	 0 	0-5 	30-100 	 25-95 	 15-65 	0-15	0-14 	NP

Table 22.--Engineering Index Properties--Continued

			Classif	ication	Frag	ments	Pe	rcentag	e passi	ng		
Map symbol	Depth	USDA texture			_			sieve r	umber		Liquid	Plas
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In	!	<u> </u>	!	Pct	Pct	ļ .	[Ţ	Ţ	Pct	ļ
1080B:			İ	 		 	 					
Spoonerhill	0-3	Sandy loam	SC, SC-SM, SM	 A-2. A-4	0	0-15	 85-100	80-95	55-75	25-40	0-31	 NP-10
Specific 1111	3-12	Gravelly sandy	1		0			1	35-75		1	NP-10
	0	loam, loamy		A-4		0 20				-5 -5	0 20	
		sand, gravelly		, 	i	! 	 	i	1	i		i
		loamy sand		! 	i	! 	 	i	1	i		i
	12-16	Gravelly loamy	SC. SC-SM.	A-1-b, A-2	0	0-15	60-100	50-95	35-75	10-30	0-27	NP-10
		sand, loamy	SM, SP-SM		1							
		sand, sandy		! 	i	! 	 	i	1	i		i
		loam		! 	i	! 	 	i	1	i		i
	16-34	1	SC-SM, SM,	A-1-b, A-2	0	0-15	60-100	50-95	35-75	10-25	0-23	NP-6
		sand, gravelly			ì				i			i
		loamy sand	İ	İ	i	i	İ	İ	i	i	i	i
	34-46		SC-SM, SM,	A-1-b, A-2	0	0-15	60-100	50-95	35-75	10-25	0-23	NP-6
		sand, gravelly	1	İ	i	i	İ	İ	i	i	İ	İ
		loamy sand	İ	İ	i	i	į	i	i	i	i	i
	46-80	Gravelly loamy	SC-SM, SM,	A-1-b, A-2	0	0-15	60-100	50-95	35-75	10-25	0-23	NP-6
		sand, loamy	SP-SM	İ	Ì	į	į	į	İ	İ	İ	į
		sand, sand	į		į	į	į	į	į	į	į	į
Spoonerhill,			 	 		 	 					
stony	0-3	Sandy loam	SC, SC-SM, SM	A-2, A-4	0-2	0-15	85-100	80-95	55-75	25-40	0-20	NP-10
-	3-12	Gravelly sandy	SC, SC-SM, SM	A-1-b, A-2,	0	0-15	60-100	50-95	35-75	15-40	0-20	NP-10
		loam, loamy	İ	A-4	i	į	į	i	i	i	İ	į
		sand, gravelly	İ	İ	Ì	į	į	į	İ	İ	İ	į
		loamy sand	İ	İ	Ì	į	į	İ	İ	İ	İ	į
	12-16	Gravelly loamy	SC, SC-SM,	A-1-b, A-2	0	0-15	60-100	50-95	35-75	10-30	0-20	NP-10
		sand, loamy	SM, SP-SM									
		sand, sandy										
		loam										
	16-34	Loamy sand,	SC, SC-SM,	A-1-b, A-2	0	0-15	60-100	50-95	35-75	10-25	0-20	NP-10
		sand, gravelly	SM, SP-SM									
		loamy sand										
	34-46	Sand, loamy	SC, SC-SM,	A-1-b, A-2	0	0-15	60-100	50-95	35-75	10-25	0-20	NP-10
		sand, gravelly	SM, SP-SM									
		loamy sand										
j	46-80	Gravelly loamy	SC, SC-SM,	A-1-b, A-2	0	0-15	60-100	50-95	35-75	10-25	0-20	NP-10
		sand, loamy	SM, SP-SM									
		sand, sand										

Table 22.--Engineering Index Properties--Continued

				Class	sif:	icati	on		Fragn	nents	Pe	rcentag	e passi	ng		
Map symbol	Depth	USDA texture						_				sieve n	umber		Liquid	Plas-
and									>10	3-10					limit	ticity
soil name			υ	nified		A.	ASHTO	i	nches	inches	4	10	40	200		index
	In	1							Pct	Pct		I			Pct	
								ļ								
1080B:			!					ļ				!				
Cress			SC,				4, A-4	ļ	0	'					0-28	
	3-15		SC,	SM		A-2-	4, A-4	ļ	0	0-5	85-100	80-100	55-80	25-45	0-28	NP-9
		fine sandy														
		loam	ļ													
	15-31		SM,	SP-SM		A-3			0	0-5	55-100	50-95	20-75	0-30	0-21	NP-4
		coarse sand,														
		gravelly sand,	!					-								
		very gravelly	!					-								
		loamy sand		an av				-	•					0.20		
	31-36	Gravelly loamy sand, coarse	SM,	SP-SM		A-3		-	0	0-5	55-100	50-100	20-75	0-30	0-21	NP-4
		sand, coarse sand, gravelly				 		-		 	 	 	 	1		
	 	sand, graverry sand, very				l I		-		 	 	 	 	l I		l I
	l I	gravelly loamy				l I		-		 	 	 	 	I I		l I
	l I	graverry roamy	 			 		-		 	l I	 	l I	I I		
	 36-60	Stratified sand	GP.	GP-GM		Δ_1.	A-2, A-	- 3 l	0	0-5	 30-100	25-95	 15-65	0-15	0-14	 NP
	30 00	to very		SP-SM		/	,			0 3	30 100	23 33	13 03	0 13	0 11	-11-
		gravelly	,			 		i		! 	İ	i	İ	i		!
	i	coarse sand	i			! 		i	i	İ	İ	i	İ	i	i	İ
	i	j	į			İ		i	i	İ	į	į	į	į	i	j
2002.																
Udorthents,																
earthen dams								ļ								
2015.		İ				 		ļ		 	 		 			
Pits	l I		 			 		-		 	l I	 	l I	I I		
1100	 					 		H		 	 	 	 	i i		l İ
2050.	 					 		i		 	 	i i	 	İ		!
Landfill						 		i		! 	İ	i	İ	i		!
	i		i			! 		i	i	İ	İ	i	İ	i	i	İ
3011A:	İ	İ	į			İ		i	i	İ	į	i	į	i	İ	j
Barronett	0-9	Silt loam	CL,	CL-ML,	ML	A-4,	A-6	į	0	0	98-100	95-100	90-100	85-95	20-35	3-15
	9-16	Silt loam	CL,	CL-ML,	ML	A-4		ĺ	0	0	98-100	95-100	90-100	85-95	20-30	3-10
	16-34	Silt loam,	CL			A-4,	A-6		0	0	98-100	95-100	90-100	85-95	28-35	9-15
		silty clay														
		loam														
	34-60	Stratified silt	CL,	CL-ML,	ML	A-4			0	0	98-100	95-100	85-100	65-95	20-30	3-10
		loam to very														
		fine sand												[

Depth	USDA texture		fication	İ	ments		rcentag sieve n	_	iig	Liquid	
					!		1		1 000	limit	
		Unified	AASHTO			4	1 10	40	200	 D=b	index
ın				PCt	PCC 	 	 	 	 	PCC	
				ì			İ	İ		İ	i
0 - 8	Loamy fine sand	SM, SC-SM	A-2-4	0	0-5	95-100	85-100	75-95	20-35	0-27	NP-9
8-28	Loamy sand,	SC-SM, SM	A-2-4	0	0-5	95-100	85-100	75-95	20-35	0-25	NP-9
	loamy fine										
28-42	:	CL	A-6	0	0-5	95-100	85-96	75-90	30-75	31-42	13-21
42-48		 ст. стмт.	 A = 6		 0-5	 95_100	 85-96	 75-90	 30-70	 22_35	 7-16
12-10		СП, СП-МП	A-0	0	0-3	33-100	63-36	73-90 	30-70	22-33	/-10
48-80		CL. CL-ML	 A-6	0	0-5	95-100	85-96	 75-90	45-70	22-35	7-16
10 00	clay loam										
	į		j	İ	į	į	į	į	į	į	į
0-2	Fine sand	SM	A-2	0	0	100	100	65-80	20-35	0-18	NP-1
2-4			A-2	0	0	100	100		1	1	NP-1
			1	1				1		1 '	NP-1
26-60	Fine sand	SM	A-2	0	0	100	100	65-80	20-35	0-17	NP-1
	1				 		 	 			
0-80	Muck	 דיסיד	 A _ R	0	 0	100	100	 			
0-00	Muck	-		0	0	1	100	 			
0-3	Muck	PT	A-8	0	0	100	100				NP
3 - 8	Loamy sand,	SM	A-2, A-3	0	0	80-100	75-100	50-70	5-15	0-14	NP
	mucky sand										
8-16	Sand, loamy	SM	A-2, A-3	0	0	80-100	75-100	50-70	5-15	0-14	NP
	sand					!	!				!
16-22		SM	A-2, A-3	0	0	80-100	75-100	50-70	5-15	0-14	NP
22 60	1	CM	7 7 7 7	0			 75 100			0 14	 NP
22-60		SM	A-2, A-3	0	U	 80-T00	/5-100	50-70	5-15	0-14	NP
	Salid			İ	 		l I	l I	 		
0 - 4	Muck	PT	A-8	0	0	100	100				
4-15	Silt loam,	CL, ML, SC,	A-2, A-4	0	0-7	80-100	75-100	45-100	25-90	0-35	NP-13
	loam, sandy	SM	j	į	İ	į	į	į	į	į	į
	loam, fine										
	sandy loam,										
						!	!				!
15-28			A-1, A-2, A-4	0	0-7	55-100	50-100	30-95	15-80	0-28	NP-9
		SM			 			 			
	-			I	l I	I I	I I	I I	1	 	
28-60		GP, GP-GM.	 A-1. A-2. A-3	0	0-7	 45-100	 40-95	 15-65	0-15	0-14	 NP
20 00			,,		, o ,	-5 -50	-0) 5		0 13	0 11	
		,	i	1	<u> </u>	i		İ			i
	coarse sand		i	i	İ	i	i	i	i	i	i
	In 0-8 8-28 28-42 42-48 48-80 0-2 2-4 4-26 26-60 0-80 0-3 3-8 8-16 16-22 22-60 0-4 4-15	In 0-8 Loamy fine sand 8-28 Loamy sand, loamy fine sand loamy fine sand loamy loam, loam loam loam, loam, loam loam loam, loam oam l	In Unified Unified In	Unified	Note	Unified	Unified AASHTO Inches	Note	No. No.	Note	Note

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

			Classi	fication	Frag	ments	Pe	rcentag	e passi	.ng		
Map symbol	Depth	USDA texture			_			sieve n	umber		Liquid	Plas
and					>10	3-10					limit	ticity
soil name			Unified	AASHTO	inches	inches	4	10	40	200		index
	In	!	[!	Pct	Pct	!	ļ	!	[Pct	l
3125A:			 			 		 	 			
Meehan	0-5	Loamy sand	SM	A-2	0	0	95-100	90-100	60-75	15-25	16-29	1-6
ricciiuii	5-8	Sand	SM	A-2	0	0	1	90-100	1	5-15		NP-2
		Sand	SM	A-2	0	0		90-100		5-15	1	NP-2
		Sand	SM	A-2, A-3	0	0	1	90-100	1	5-15		NP-1
	20-00			A-2, A-3	0	0		30-100 		3-13	0-10	
3126A:					İ			İ	i		İ	
Wurtsmith	0-9	Loamy sand	SM	A-2	0	0	85-100	75-100	55-75	20-30	0-35	NP-6
	9-37	Coarse sand,	SM	A-2, A-3	0	0	85-100	75-100	50-70	5-15	0-19	NP-2
		sand	İ	İ	İ	İ	İ	İ	İ	ĺ	İ	ĺ
	37-60	Sand, coarse	SM	A-2, A-3	0	0	85-100	75-100	50-70	5-15	0-14	NP
		sand	ĺ	ĺ		ĺ	ĺ	ĺ	ĺ	İ	İ	ĺ
								ļ				ļ
3312B:												
Glendenning,												
very stony	0-5	Sandy loam	SC-SM, SM	A-2, A-4	0-5	0-7	1		1	25-45		NP-5
	5-15	Sandy loam,	SC-SM, SM	A-2, A-4	0	0-15	55-100	50-98	35-75	15-40	15-25	NP-5
		fine sandy		1	1				!			
		loam, gravelly		1	1				!			
		loam										
	15-20	Sandy loam,	SC-SM, SM	A-2-4, A-4	0	0-15	55-100	50-98	35-75	15-40	15-28	NP-5
		fine sandy										
		loam, gravelly										
	20 26	loam	laa ay ay		0	0.15	 FF 100			115 40	15-28	 xp_E
	20-26	Sandy loam,	SC-SM, SM	A-2-4, A-4	0	0-15	122-100	50-98	35-75	15-40	15-28	NP-5
		fine sandy										
		loam, gravelly	 									
	1 26 40	Sandy loam,	SC-SM, SM	A-2-4, A-4	0	0 15	 FF 100			115 40	15-25	 NTD 10
	26-40		1	A-2-4, A-4	0	0-15	122-100	50-98	35-75	15-40	15-25	NP-IO
		loam, gravelly	l I	l I	i i			l I				l I
		fine sandy loam	ļ Ī	l I								
	 40 CE	1	laa ay ay	122424	 0	0 15	 FF 100			115 40	15-25	 NTD 10
	20-05	Sandy loam, loam, gravelly	SC-SM, SM	A-2-4, A-4	0	1 0-12	122-100	30-98	35-75	15-40	13-23	 WE-TO
	 		 	l I	i i	 	 	l I		1		
		fine sandy loam	[[I I	I		1	I I	1		1	I I
	 6E 00	1	 cc cw cw	 A-2-4, A-4	0	0.15	 EE 100	 EO OC		115 40	 15-25	 ND E
	05-60	Sandy loam, gravelly fine	SC-SM, SM	A-2-4, A-4	0	1 0-13	122-100	120-30	33-15	1 13-40	15-25	MF-2
	l I	gravelly line sandy loam	I I	I I	I	I	1	I I	1	1	1	I I
	l I	sandy loam	I I	I I	I	I	1	I I	1	1	1	I I
	1	1	1	1		1	1	1	1	1	1	1

Man grade 1	Do-th	HCDA bearing	Classif	ication	Fragi	ments		rcentag			 T d amod 3	
Map symbol and	Depth	USDA texture		1	_ >10	3-10		sieve n	umber		Liquid	
soil name	 		 Unified	AASHTO		3-10 inches	4	10	40	200	11111111	ticity
	l In	1	OHITIEU	AADIIIO	Pct	Pct	1 -	1 10	1 10	1 200	Pct	I
	111		 		FCC	FCC		1	 		FCC	
3312B:	 					 	i	İ		i		
Glendenning	0-7	Sandy loam	SC-SM, SM	A-2, A-4	0	0-15	80-100	75-98	50-60	25-45	15-25	NP-5
5			SC-SM, SM	A-2, A-4	0					15-40		NP-5
	j	fine sandy	İ	İ	į	İ	į	İ	İ	İ	į	İ
		loam, gravelly										
		loam										
	15-20	Sandy loam,	SC-SM, SM	A-2-4, A-4	0	0-15	55-100	50-98	35-75	15-40	15-28	NP-5
		fine sandy					!			!		
		loam, gravelly				 						
	20-26	loam Sandy loam,	SC-SM, SM	A-2-4, A-4	 0	 0_15	 55-100	 E0_00		15-40	 15-28	 ND_E
	20-20	fine sandy	SC-SM, SM	A-2-1, A-1	0	0-13	33-100	30-36	33-73	122-40	13-26	NF-5
	! 	loam, gravelly		i		! 	i	i	i	1		i
	İ	loam		i	i	İ	i	İ	İ	İ	i	İ
	26-40	Sandy loam,	SC-SM, SM	A-2-4, A-4	0	0-15	55-100	50-98	35-75	15-40	15-25	NP-10
		loam, gravelly										
		fine sandy										
		loam					!					
	40-65		SC-SM, SM	A-2-4, A-4	0	0-15	55-100	50-98	35-75	15-40	15-25	NP-10
	 	loam, gravelly fine sandy	 	I I		 		l i	l I	l I		l I
	 	loam	 			 		1	 			
	65-80		SC-SM, SM	A-2-4, A-4	0	0-15	55-100	50-98	35-75	15-40	15-25	NP-5
		gravelly fine		į .						i		İ
	j	sandy loam	j	İ	į	İ	į	į	į	İ	į	į
		!	!	!	!		!					
3336A:												
Fenander	0-9	Fine sandy loam Fine sandy	ML, SM CL-ML, ML,	A-4	0 0	0 0				35-75	0-27	NP-4 2-10
	9-15	loam, sandy	SC-SM, SM	A-4	0	U	93-100	33-100	/3-90	35-75	17-20	2-10
	! 	loam, silt		i		! 	i	i	i	1	1	i
	İ	loam		İ	i	İ	i	İ	İ	i	i	İ
	15-27	Loam, sandy	SC-SM, CL-ML	A-4	0	0	95-100	93-100	75-90	35-75	21-31	6-12
		loam, fine										
		sandy loam,]								
		silt loam										
	27-33		SC-SM	A-4	0	0	95-100	93-100	75-90	35-45	21-31	6-12
	 	loam, sandy loam	 			 			l I	l I		l I
	 33-80	Stratified	SC-SM	A-2-4, A-4	0	 0	 95-100	93-100	45-85	10-50	16-32	2-13
		loamy fine										
	İ	sand to fine	İ	İ	İ	İ	i	İ	İ	İ	i	İ
		sandy loam	İ	İ	j		į	İ	İ	İ	İ	İ
	 	sandy loam	 			 	 					

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

		ļ	Classi	fication	Fragi	nents		rcentag	_	ng		!
Map symbol	Depth	USDA texture		1	_			sieve n	umber		Liquid	
and soil name			 Unified	AASHTO	>10	3-10 inches	 4	10	40	200	limit	ticity index
soli name		1	Unified	AASHTO			4	10	40	200	<u> </u>	Index
	In				Pct	Pct	 	 			Pct	
3403A:			 			 	 	 	l I	l I		
Loxley	0-13	Mucky peat	PT	A-8	0	0	100	100	100	100		NP
į	13-60	Muck	PT	A-8	0	0	100	100	100	100		NP
Beseman	0-36	Muck	 PT	 A-8	0	 0	 100	 100	 100	 100		
	36-60	Loam, silt	CL, CL-ML,	A-4, A-2-4	0	0-2	80-100	75-100	45-100	25-90	20-33	4-13
		loam, sandy	SC-SM			 	 	 	 	 	 	
Dawson	0 - 8	Peat	 PT	A-8	0	0	100	100	 			
	8-38	Muck	PT	A-8	0	0	100	100				
 	38-40	Silt loam, loam, fine sand, mucky sand	SM, ML 	A-2-4, A-4 	0 	0 	100 	100 	50-100 	10-90 	0-59 	NP - 9
 	40-60	Sand, gravelly sand, very gravelly very fine sand	SP-SM, GP, SM, SP 	A-1, A-2, A-3, A-4	0	0 	45-100 	35-100 	15-90 	0-45 	0-23	NP - 6
3429B:						 						
Lara	0-10	Loamy fine sand	SM, SC-SM	A-2-4	0	0	100	98-100	75-100	10-40	0-26	NP-6
 	10-35	Fine sand, loamy fine sand	SM, SC-SM 	A-2-4 	0 	0 	100 	98-100 	75-100 	20-40 	0-23 	NP - 6
 	35-42	Loamy fine sand, fine sand	SM, SC-SM 	A-2-4 	0 	0 	100 	98-100 	75-100 	20-40 	0-22 	NP - 6
ĺ	42-55	Clay, silty	CH	A-7, A-7-6	0	0	100	98-100	55-100	55-100	67-85	44-59
İ	55-75	Clay, silty	СH 	A-7, A-7-6	0	0 	100	98-100	 55-100 	55-100 	67-85	44-59
	75-80	Silty clay, clay	CH	A-7, A-7-6	0	0	100	98-100	55-100 	55-100 	49-85	29-59

Map symbol	Depth	USDA texture	Classi	fication	Fragi	ments		rcentago sieve n	-	ng	 Liquid	 Plas
and				1	>10	3-10	i				limit	
soil name			Unified	AASHTO		inches	4	10	40	200		index
	In			İ	Pct	Pct					Pct	İ
3429C:			 		l I	 	 	 	 	 	 	
Lara	0-10	Loamy fine sand	SM, SC-SM	A-2-4	i o	0	100	98-100	75-100	10-40	0-26	NP-6
		Fine sand,	SM, SC-SM	A-2-4	0	0	100		75-100		0-23	NP-6
		loamy fine				 	i i	i i	i I	i I	 	
	35-42	Fine sand,	SM, SC-SM	A-2-4	i o	0	100	98-100	75-100	20-40	0-22	NP-6
		loamy fine					 	 	 	 		
	42-55	Clay, silty	CH	A-7, A-7-6	0	0	100	98-100	 55-100	55-100	67-85	44-59
	55-75	Clay, silty	CH	A-7, A-7-6	0	0	100	98-100	 55-100	55-100	67-85	44-59
	FF 00	clay	l corr			 0	100			 55-100		
	75-80	Silty clay, clay	CH	A-7, A-7-6 	0	0	100 		 		49-85	29-59
3446A:						 	 	 	 	 	 	
Newson	0-3	Muck	PT	A-8	0	0	100	100				NP
	3-8	Loamy sand,	SM	A-2, A-3	0	0	80-100	75-100	50-70	5-15	0-14	NP
		mucky sand										
	8-16	Sand, loamy sand	SM 	A-2, A-3	0	0 	80-100 	75-100 	50-70 	5-15 	0-14 	NP
	16-22	Sand, loamy sand	SM 	A-2, A-3	0	0 	80-100 	75-100 	50-70 	5-15 	0-14 	NP
	22-60	Sand, loamy sand	SM 	A-2, A-3	0	0	80-100	75-100	50-70	5-15	0-14	NP
3448B:												
Grettum	0 - 3	Loamy sand	SC-SM, SM	A-2-4	0	0	90-100	85-100	60-80	15-25	0-23	NP-6
	3-32	Sand, loamy	SC-SM, SM	A-2-4, A-3	0	0	90-100	85-100	70-95	5-20	0-23	NP-6
	22 75	sand Sand, loamy	SC-SM, SM	A-2-4, A-3	0	 0		 85-100		 5-20	 0-23	
	32-75	sand, loamy	SC-SM, SM	A-2-4, A-3	0	0	 90-100	 82-T00	10-95	5-20	0-23	NP-6
	75-80		SM	A-2-4, A-3	0	0	 90-100	85-100	 55-75 	5-15	0-21	 NP - 4
3448C:			 			 	 	 	 	 	 	
Grettum	0-3	Loamy sand	SC-SM, SM	A-2-4	0	0	90-100	85-100	60-80	15-25	0-23	NP-6
j	3-32	Sand, loamy	SC-SM, SM	A-2-4, A-3	0	0	90-100	85-100	70-95	5-20	0-23	NP-6
İ		sand										
	32-75	Sand, loamy	SC-SM, SM	A-2-4, A-3	0	0 	90-100 	85-100	70-95 	5-20	0-23	NP - 6
İ	75-80	Sand	SM	A-2-4, A-3	0	0	90-100	85-100	55-75	5-15	0-21	NP-4

Table 22.--Engineering Index Properties--Continued

Table 22.--Engineering Index Properties--Continued

In			Classification			Percentage passing sieve number				 Liquid limit	Plas-
In	i			>10	3-10	j				limit	ticity
In		Unified	AASHTO	inches	inches	4	10	40	200	İ	index
	[!		Pct	Pct				İ	Pct	ļ
0-3	Loamv sand	SM	A-2-4	0	0-7	100	75-100	40-70	15-30	0-26	NP-7
				0	0-7	100			5-30	1	NP-7
	sand			i	İ			i		İ	İ
30-45	Sandy loam	SM, SC-SM, SC	A-2	0	0-7	80-95	75-90	45-65	25-35	16-30	2-12
45-80	Sandy loam	SM, SC-SM, SC	A-2	0	0-7	80-95	75-90	45-65	25-35	0-27	NP-10
0 - 5	Loamy sand	SC-SM, SM	 A-2-4	0-3	 0-15	 75-100	 70-95	 30-75	15-30	0-28	 NP-7
5-33	Loamy sand,	SC-SM, SM	A-2, A-1-b	0-3	0-15	75-100	70-95	30-75	15-30	0-24	NP-6
	sand	İ		j	ĺ		ĺ	İ	İ	İ	ĺ
33-37	loamy sand,	İ	A-1-b, A-2 	0-3	0-15 	70-100 	65-95 	30-60 	10-40	16-27 	2-10
	sand	İ	ĺ	j	ĺ		ĺ	ĺ	İ	İ	ĺ
37-45	sandy loam,	İ	A-1-b, A-2 	0-3	0-15 	70-100 	65-95 	30-60 	10-40 	0-27 	NP-10
	sand										
45-70			A-1-b, A-2 	0-3	0-15 	70-100 	65-95 	30-50 	10-30 	0-23 	NP - 6
70-80		SC-SM, SM	A-1-b, A-2 	0-3	0-15 	70-100 	65-95 	30-50 	10-30	0-23	NP - 6
0-5	Loamv sand	SC-SM, SM	A-2-4	0-3	0-15	75-100	70-95	30-75	15-30	0-28	NP-7
			A-2, A-1-b	0-3	0-15	75-100	70-95	30-75	15-30	0-24	NP-6
	sand	İ	İ	i	į	İ	į	i	İ	į	į
33-37	loamy sand,	İ	A-1-b, A-2 	0-3	0-15 	70-100 	65-95 	30-60 	10-40 	16-27 	2-10
37-45	sandy loam, gravelly loamy	İ	A-1-b, A-2 	0-3	0-15 	70-100 	65-95 	30-60 	10-40	0-27	NP-10
45-70	Loamy sand,	SC-SM, SM	 A-1-b, A-2 	0-3	 0-15 	 70-100 	 65-95 	30-50 	10-30	0-23	 NP - 6
70-80		SC-SM, SM	A-1-b, A-2 	0-3	0-15	70-100	65-95 	30-50	10-30	0-23	NP - 6
	3-30 30-45 45-80 0-5 5-33 33-37 37-45 45-70 70-80 0-5 5-33 33-37 37-45	3-30 Sand, loamy sand sand 30-45 Sandy loam 45-80 Sandy loam 0-5 Loamy sand sand	3-30 Sand, loamy SP-SM, SM sand 30-45 Sandy loam SM, SC-SM, SC 45-80 Sandy loam SM, SC-SM, SC 0-5 Loamy sand SC-SM, SM sand 33-37 Sandy loam, SC, SC-SM, SM loamy sand, gravelly loamy sand 37-45 Loamy sand, gravelly loamy sand 37-45 Loamy sand, gravelly loamy sand 37-45 Loamy sand, SC-SM, SM gravelly loamy sand 37-80 Loamy sand, SC-SM, SM gravelly loamy sand 37-80 Loamy sand, SC-SM, SM SC-S	3-30 Sand, loamy SP-SM, SM A-3, A-2-4 sand	3-30 Sand, loamy SP-SM, SM A-3, A-2-4 0 sand 30-45 Sandy loam SM, SC-SM, SC A-2 0 0 0 0 0 0 0 0 0	3-30 Sand, loamy SP-SM, SM A-3, A-2-4 0 0-7 sand	3-30 Sand, loamy SP-SM, SM A-3, A-2-4 0 0-7 100 sand	3-30 Sand, loamy SP-SM, SM A-3, A-2-4 0 0-7 100 75-100 8 and 30-45 Sandy loam SM, SC-SM, SC A-2 0 0-7 80-95 75-90 45-80 Sandy loam SM, SC-SM, SC A-2 0 0-7 80-95 75-90 65-95	3-30 Sand, loamy SP-SM, SM	3-30 Sand loamy SP-SM, SM	3-30 Sand, loamy SP-SM, SM A-3, A-2-4 0 0-7 100 75-100 40-70 5-30 0-25 8and 8and 8M, SC-SM, SC A-2 0 0-7 80-95 75-90 45-65 25-35 16-30 45-80 8andy loam SM, SC-SM, SC A-2 0 0-7 80-95 75-90 45-65 25-35 16-30 45-80 8andy loam SM, SC-SM, SC A-2 0 0-7 80-95 75-90 45-65 25-35 0-27 10-20 10

0-23 NP-6

Classification Fragments Percentage passing Map symbol Depth USDA texture sieve number --|Liquid| Plasand >10 3-10 limit | ticity Unified soil name AASHTO inches inches 4 10 40 200 index Pct Pct Pct 3510C: Pomroy-----0-3 Loamy sand A-2-4 0 0 - 7 100 |75-100|40-70 |15-30 0-26 NP-7 Sand, loamy A-3, A-2-4 |75-100|40-70 3-30 SP-SM, SM 0 0 - 7 100 5-30 0-25 NP-7 sand 30-45 | Sandy loam SM, SC-SM, SC A-2 0 0-7 80-95 | 75-90 | 45-65 | 25-35 | 16-30 | 2-12 45-80 Sandy loam SM, SC-SM, SC A-2 0 |80-95 |75-90 |45-65 |25-35 | 0-27 |NP-10 Fremstadt-----0-5 Loamy sand SC-SM, SM A-2-4 0-3 0-15 | 75-100 | 70-95 | 30-75 | 15-30 0-28 NP-7 Loamy sand, SC-SM, SM A-2, A-1-b 0-3 0-15 | 75-100 | 70-95 | 30-75 | 15-30 0-24 NP-6 sand 33-37 | Sandy loam, SC, SC-SM, SM A-1-b, A-2 0-3 0-15 | 70-100 | 65-95 | 30-60 | 10-40 | 16-27 2-10 loamy sand, gravelly loamy sand |SC, SC-SM, SM|A-1-b, A-2 0-15 | 70-100 | 65-95 | 30-60 | 10-40 | 0-27 | NP-10 37-45 | Loamy sand, 0-3 sandy loam, gravelly loamy sand 45-70 Loamy sand, SC-SM, SM A-1-b, A-2 0-3 0-15 | 70-100 | 65-95 | 30-50 | 10-30 0-23 NP-6 gravelly loamy sand 70-80 Loamy sand, SC-SM, SM A-1-b, A-2 0-3 0-15 | 70-100 | 65-95 | 30-50 | 10-30 0-23 NP-6 gravelly loamy sand Fremstadt, stony 0-5 Loamy sand SC-SM, SM A-2-4 0-15 | 75-100 | 70-95 | 30-75 | 15-30 5-33 Loamy sand, SC-SM, SM A-2, A-1-b 0-15 | 75-100 | 70-95 | 30-75 | 15-30 0-24 | NP-6 0-3 sand 33-37 | Sandy loam, SC, SC-SM, SM A-1-b, A-2 0-3 0-15 | 70-100 | 65-95 | 30-60 | 10-40 | 16-27 | 2-10 loamy sand, gravelly loamy sand SC, SC-SM, SM A-1-b, A-2 0-15 | 70-100 | 65-95 | 30-60 | 10-40 | 37-45 Loamy sand, 0-3 sandy loam, gravelly loamy sand 0-23 NP-6 45-70 | Loamy sand, SM, SC-SM A-1-b, A-2 0-3 0-15 |70-100|65-95 |30-50 |10-30 |

A-1-b, A-2

0-3

0-15 |70-100|65-95 |30-50 |10-30 |

gravelly loamy

gravelly loamy

SC-SM, SM

sand

sand

70-80 | Loamy sand,

Table 22.--Engineering Index Properties--Continued

Map symbol	Depth	USDA texture	Classi	fication	Fragi	ments		rcentag	_	_	 Liquid	 Plas-
and		İ		1	>10	3-10	į				limit	ticity
soil name	İ	İ	Unified	AASHTO	inches	inches	4	10	40	200	i	index
	In				Pct	Pct				İ	Pct	
3511A:					1							
Bushville	0 - 4	Loamy sand	SM	A-2-4	0					15-30	1	
	4-21 	Loamy sand, sand	SM, SP-SM	A-2-4 	0	0-7 	95-100 	90-100 	45-75 	5-30	0-21	NP - 4
	21-24 	Fine sandy loam, sandy loam	SC, SC-SM 	A-2-4, A-4 	0 	0-7 	90-100 	85-90 	50-75 	25-50 	18-28 	4-10
	24-30 	Fine sandy loam, sandy loam	SC, SC-SM 	A-2-4, A-4 	0 	0-7 	90-100 	85-90 	50-75 	25-50 	20-30	6-12
	30-45 	Sandy loam, fine sandy loam	SC-SM, SC 	A-2-4, A-4 	0 	0-7 	90-100 	85-90 	50-75 	25-50	18-28 	4-10
	45-60	Sandy loam	SC-SM, SM	A-2-4, A-4	0	0-7	90-100	85-90	50-70	25-40	16-27	2-10
3516A:	i	i		i	i	i	İ	i	i	i	i	i
Slimlake	0-6	Sandy loam	SM	A-4	0	0-7	90-100	85-100	50-70	30-40	17-29	1-6
	6-17	Sandy loam	SM, SC-SM	A-2-4, A-4	0	0-7	90-100	85-100	50-70	30-40	15-23	1-6
	17-42	Gravelly sand,	SP-SM	A-1	0	0-7	70-90	65-85	35-55	5-15	0-17	NP-1
	42-53	Gravelly sand, sand, coarse sand	SP-SM 	A-1 	0	0-7 	70-90 	65-85 	35-55 	5-10 	0-17	NP-1
	53-80 	Sand, gravelly sand, coarse sand	SP-SM 	A-1 	0 	0-7 	70-90 	65-85 	35-55 	5-10 	0-17 	NP - 1
3625A:			į	į	į	į	į	į	į	į	į	į
Lino	0-7	Loamy fine sand	1	A-2	0	0	100	100		15-35	0-26	
	7-45 	Fine sand, loamy fine sand	SM, SP-SM 	A-2 	0	0 	100 	100 	50-80 	5-35 	0-23 	NP - 6
	45-60	Fine sand, sand	SM	A-2, A-3	0	0 	100 	100	50-70 	5-25	0-19	NP-2
3626A:	i				i	i	İ	İ	İ	i	İ	İ
Crex	0-1	Moderately decomposed plant material	 PT 	A-8	0	0 	100 	100	 			
	1-7	Loamy fine sand	SM	A-2-4	0	0	100	100	70-80	15-35	0-37	NP-4
		Fine sand, loamy fine sand	SM 	A-2-4	0	0 	100 101	100 	50-80 	5-25	1	NP-1
	40-71	Fine sand, sand	SM, SP-SM	A-2-4, A-3	0	0	100	100	50-80	5-25	0-18	NP-1
		Sand, fine sand		A-2-4, A-3	0	0	100	100	50-80	5-25	1	NP - 1

Map symbol	Depth	USDA texture	Classi	fication	Fragi	ments		rcentag	e passi: umber	ng	 Liquid	 Plas-
and	_	İ			>10	3-10	İ				limit	ticity
soil name		İ	Unified	AASHTO	inches	inches	4	10	40	200	İ	index
	In		[İ	Pct	Pct	[[Pct	
3629B:						 	 	 		 	 	
Perida	0-9	Loamy sand	SM	A-2	0	0	90-100	80-100	60-75	15-25	0-14	NP
	9-43	Sand, loamy sand, fine sand	SM 	A-2	0 	0 	90-100 	80-100 	60-75 	 15-25 	0-14 	NP
	43-45	Loamy sand, sand, fine sand	SM 	A-2 	0 	0 	90-100 	80-100 	60-75 	15-25 	0-14 	NP
	45-60	Clay, silty	CH	A-7 	0	0 	100 	100 	90-100 	75-100 	64-90 	40-60
	60-74	Silty clay,	CH	A-7 	0	0 	100 	100 	90-100 	75-100 	64-90 	40-60
	74-80	Sand	SM	A-2-4, A-3	0 	0 	90-100 	85-100 	55-75 	5-15 	0-14 	NP
3636B:		İ	İ	j	i	į	İ	į	İ	į	į	į
Plainbo	0 - 4	Sand	SM, SC-SM,	A-1, A-2-4	0	0 	60-100 	55-100 	30-70 	5-15 	0-25	NP - 5
	4-13	Sand, gravelly sand	SM, SP-SM, SC-SM	A-1, A-2-4, A-3	0	0-15	60-100	55-100 	30-70	5-15	0-22	NP - 5
	13-32	Sand, gravelly sand	SM, SP-SM	A-1, A-2-4, A-3	0 	0-15 	60-100 	55-100 	30-70 	5-15 	0-22	NP - 5
	32-75	Weathered bedrock				 	 	 	 	 	 	
	75-80	Bedrock				 	 	 	 	 	 	
3636C:		İ	İ	j	İ	ĺ	ĺ	ĺ	ĺ	İ	ĺ	ĺ
Plainbo	0 - 4	Sand	SM, SC-SM,	A-1, A-2-4 	0	0 	60-100 	55-100 	30-70 	5-15 	0-25	NP - 5
	4-13	Sand, gravelly sand	SM, SP-SM,	A-2-4, A-3, A-1	0	0-15 	60-100 	55-100 	30-70 	5-15 	0-22	NP - 5
	13-32	Sand, gravelly sand	SM, SP-SM	A-1, A-2-4, A-3	0	0-15 	60-100 	55-100 	30-70 	5-15 	0-22	NP - 5
	32-75	Weathered bedrock				 	 	 	 	 	 	
	75-80	Bedrock				 	 	 	 	 	 	
M-W. Miscellaneous water		 	 			 	 	 	 	 	 	
W. Water		 	 			 	 	 	 	 	 	

Table 22.--Engineering Index Properties--Continued

Table 23.--Physical Properties of the Soils

(Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer. Absence of an entry indicates that data were not estimated)

Map symbol	Depth	 Clay	Moist	Permea-	Available	1	Organic		on fac		erodi-	1
and soil name		 	bulk density	bility	water capacity	extensi- bility	matter	 Kw	 Kf	 T	bility group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct					
3A:		 	 		 	 		 		 	 	
Totagatic	0-4	0-0	0.15-0.45	6.00-20	0.35-0.45	i	55-85	.02	.02	5	8	i o
	4-8	!	1.40-1.65		0.05-0.15	1	0.0-0.5	.10	.15	-	-	-
	8-17	!	1.40-1.65		0.05-0.15	1	0.0-0.5	.10	.15	i		i
	17-28	1	1.40-1.65		0.05-0.10	1	0.0-10	.10	.15	i		i
	28-46		1.40-1.65		0.05-0.10	1	0.0-10	.10	.15	i		i
	46-70	!	1.40-1.65		0.02-0.10	1	0.0-0.5	.10	.15	i		i
	70-80		1.40-1.65		0.02-0.10	1	0.0-0.5	.10	.15			į
 Bowstring	0-38	 0-0	 0.10-0.35	0.20-6.00	0.35-0.45	 	70-90	.02	.02	 3	 8	 0
	38-47	!	1.40-1.65		0.05-0.10	1	0.0-0.5	.10	.15	-	-	-
	47-80	!			0.35-0.45	1	70-90	.02	.02	İ	İ	İ
 Ausable	0-10	0-0	 0 15-0 45	0.20-6.00	0.35-0.45		55-85	.02	.02	 2	8	0
iusabie	10-60	!	1.50-1.70		0.05-0.07	1	0.0-0.5	.02	.02	4		
2A: Makwa	0-8	 0-0	 0.15-0.35	0.20-6.00	0.23-0.38	 	 75-100	.02	.02	 3	8	 0
	8-16	!			0.06-0.16	0.0-2.9	4.0-10			i		i
i	16-43	!			0.06-0.10	1	0.2-0.8			i	İ	i
i	43-65	1			0.05-0.09	1	0.0-0.5			i	İ	i
	65-80	20-50	1.65-1.85	0.06-0.20	0.20-0.22	1	0.0-0.5			İ	į	į
2 Α:		 	 			 		 		 		
Comstock	0-8	8-22	 1.35-1.55	0.60-2.00	0.20-0.24	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	8-15	!			0.20-0.22	1	0.0-1.0	.43	.43	-	-	
	15-21	!			0.18-0.22	1	0.0-0.5	.43	.43	i		i
	21-34				0.18-0.22	1	0.0-0.5	.43	.43	i	İ	i
	34-44	!			0.12-0.22	1	0.0-0.5	.37	.37	i	İ	i
	44-60	!		0.20-0.60	0.12-0.22	1	0.0-0.5	.37	.37	į		
/A:		 	 			 		 		 		
Scott Lake	0-10	6-15	1.35-1.70	0.60-2.00	0.12-0.14	0.0-2.9	2.0-3.0	.24	.24	4	3	86
	10-17	!			0.11-0.13	1	0.0-0.5	.32	.32	i		i
i	17-24	!			0.11-0.13	1	0.0-0.5	.24	.24	i	İ	i
i	24-31	!			0.02-0.10	1	0.0-0.5	.17	.17	i	İ	i
	31-80	!	1.55-1.80		0.01-0.07	1	0.0-0.5	.10	.15	į		
8B:		 	 			 		 		 		
Haugen, very stony	0-4	6-14	1.40-1.65	0.60-2.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	5	8	0
i	4-15	4-14	1.40-1.70	0.60-2.00	0.08-0.19	0.0-2.9	0.5-1.0	.24	.24	i	İ	i
i	15-23	4-14	1.40-1.70	0.60-2.00	0.08-0.19	0.0-2.9	0.5-1.0	.24	.24	i	İ	i
i	23-35			0.60-2.00	0.05-0.16	0.0-2.9	0.0-0.5	.24	.24	i	İ	i
i	35-49	6-16	1.40-1.70	0.20-0.60	0.05-0.13	0.0-2.9	0.0-0.5	.24	.24	i	İ	i
i	49-79			0.20-0.60	•		0.0-0.5	.24	.24	i	İ	i
	79-80			0.01-0.06	,		0.0-0.5	.24	.24	į		į
 Haugen	0-7	 6-14	 1.40-1.65	0.60-2.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	 5	 3	 86
-	7-15			0.60-2.00	,			1	.24	i	į	į
i	15-23			0.60-2.00	,			.24	.24	i	İ	i
	23-35			0.60-2.00	,			1	.24	i	İ	i
i	35-49			0.20-0.60	,			.24	.24	i	İ	i
i	49-79			0.20-0.60	,		1	1	.24	i	İ	i
i	79-80			0.01-0.06			0.0-0.5	.24	.24	i	i	i
		i ===	, <u> </u>					1		i	i	i

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Table 23.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	 Clay	 Moist bulk	Permea- bility	 Available water	 Linear extensi-	 Organic matter	Erosi	on fac	cors		Wind erodi-
and soil name		 	density	bility	capacity	bility	matter	Kw	 Kf	 T	group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	İ	İ		l	İ
28B:												
Rosholt, very stony	0-4	 4-10	 1.50-1.60	0.60-6.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	 4	 3	 86
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4-10		1.70-1.80		0.05-0.16	1	0.0-1.0	.24	.24	İ		İ
i	10-14	5-14	1.70-1.80	0.60-6.00	0.05-0.16	0.0-2.9	0.0-1.0	.24	.24	i	i	İ
	14-28	6-15	1.65-1.75	0.60-6.00	0.06-0.19	0.0-2.9	0.0-0.5	.24	.24	İ	į	İ
	28-34	4-12	1.55-1.65	0.60-6.00	0.02-0.10	0.0-2.9	0.0-0.5	.10	.17			
	34-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
Rosholt	0 - 8	 4-10	 1.50-1.60	0.60-6.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	 4	 3	 86
	8-10	3-12	1.70-1.80	0.60-6.00	0.05-0.16	0.0-2.9	0.0-1.0	.24	.24	i	į	İ
j	10-14	5-14	1.70-1.80	0.60-6.00	0.05-0.16	0.0-2.9	0.0-1.0	.24	.24	ĺ	İ	ĺ
	14-28	6-15	1.65-1.75	0.60-6.00	0.06-0.19	0.0-2.9	0.0-0.5	.24	.24			
	28-34	4-12	1.55-1.65	0.60-6.00	0.02-0.10	0.0-2.9	0.0-0.5	.10	.17			
	34-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
28C:		 	 			 	 	 		 		
Haugen, very stony	0-4	6-14	1.40-1.65	0.60-2.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	5	3	86
	4-15	4-14	1.40-1.70	0.60-2.00	0.08-0.19	0.0-2.9	0.5-1.0	.24	.24			
	15-23	4-14	1.40-1.70	0.60-2.00	0.08-0.19	0.0-2.9	0.5-1.0	.24	.24			
	23-35		1.40-1.70		0.05-0.16	1	0.0-0.5	.24	.24			
	35-49		1.40-1.70		0.05-0.13	1	0.0-0.5	.24	.24			
	49-79		1.40-1.70		0.05-0.13	1	0.0-0.5	.24	.24	ļ		
	79-80	6-15 	1.80-1.90 	0.01-0.06	0.02-0.05	0.0-2.9	0.0-0.5	.24	.24	 	 	
Haugen	0 - 7	6-14	1.40-1.65	0.60-2.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	5	3	86
	7-15	4-14	1.40-1.70	0.60-2.00	0.08-0.19	0.0-2.9	0.5-1.0	.24	.24			
	15-23		1.40-1.70		0.08-0.19		0.5-1.0	.24	.24			
	23-35	'	1.40-1.70		0.05-0.16		0.0-0.5	.24	.24			
	35-49		1.40-1.70		0.05-0.13	1	0.0-0.5	.24	.24	ļ		
	49-79 79-80	'	1.40-1.70 1.80-1.90		0.05-0.13	1	0.0-0.5	.24	.24	 	 	
		į	į į		į	į	į	į	į	į	į	į
Rosholt, very stony	0-4		1.50-1.60		0.12-0.14	1	1.0-3.0	.24	.24	4	3	86
	4-10	'	1.70-1.80		0.05-0.16	1	0.0-1.0	.24	.24			
	10-14 14-28	'	1.70-1.80 1.65-1.75		0.05-0.16		0.0-1.0	.24	.24	 		
	28-34		1.65-1.75 1.55-1.65		0.00-0.19		0.0-0.5	1.10	1 .17	l I	 	l I
	34-60		1.55-1.80		0.01-0.07		0.0-0.5	.10	1.15			
Rosholt	0-8 8-10		1.50-1.60 1.70-1.80		0.12-0.14	1	1.0-3.0	.24	.24	4	3	86
	10-14		1.70-1.80 1.70-1.80		0.05-0.16		0.0-1.0	.24	.24	 	 	l I
	14-28	'	1.75-1.75 1.65-1.75		0.06-0.19	0.0-2.9	0.0-0.5	.24	.24	 	 	l I
	28-34	'		0.60-6.00	1	1	1		1	i I	 	
	34-60	'	1.55-1.80		0.01-0.07			.10			İ	
38A:		 				 	 	 	 			
Rosholt	0-8	 4-10	 1.50-1.60	0.60-6.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	4	 3	 86
	8-10			0.60-6.00	1	1	1		1	i -		
i	10-14	'		0.60-6.00						i	i	İ
	14-28	6-15	1.65-1.75	0.60-6.00	0.06-0.19	0.0-2.9	0.0-0.5	.24	.24	İ	į	İ
	28-34	4-12	1.55-1.65	0.60-6.00	0.02-0.10	0.0-2.9	0.0-0.5	.10	.17			
	34-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
38B:		 	 		 	 	 		 	 		
Rosholt	0-8	4-10	1.50-1.60	0.60-6.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	4	3	86
i	8-10	3-12	1.70-1.80	0.60-6.00	0.05-0.16	0.0-2.9	0.0-1.0			İ	į	İ
İ	10-14	5-14	1.70-1.80	0.60-6.00	0.05-0.16	0.0-2.9	0.0-1.0	.24	.24			
İ	14-28	6-15	1.65-1.75	0.60-6.00	0.06-0.19	0.0-2.9	0.0-0.5	.24	.24			
	28-34	'		0.60-6.00					.17			
	34-60	1 - 6	1.55-1.80	6 00-20	0 01-0 07	0.0-2.9	0.0-0.5	.10	.15	1	1	I

Table 23.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	 Clay 	 Moist bulk	Permea- bility	 Available water	 Linear extensi-	 Organic matter		on fac			Wind erodi- bility
and soll name			density	DITTLY	capacity	bility	maccer	Kw	Kf	T	group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	İ	<u>.</u>	İ		İ
38C:												
Rosholt	0-8	4-10	 1.50-1.60	0.60-6.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	4	 3	 86
	8-10				0.05-0.16		0.0-1.0	.24	.24	i	İ	i
İ	10-14	5-14	1.70-1.80	0.60-6.00	0.05-0.16	0.0-2.9	0.0-1.0	.24	.24	į	į	į
I	14-28	6-15	1.65-1.75	0.60-6.00	0.06-0.19		0.0-0.5	.24	.24			
	28-34			0.60-6.00	0.02-0.10		0.0-0.5	.10	.17			
	34-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
38D:		 	 			 	 	İ	 		 	
Rosholt	0-8	4-10	1.50-1.60	0.60-6.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	4	3	86
İ	8-10	3-12	1.70-1.80	0.60-6.00	0.05-0.16	0.0-2.9	0.0-1.0	.24	.24	į	į	į
I	10-14	5-14	1.70-1.80	0.60-6.00	0.05-0.16	0.0-2.9	0.0-1.0	.24	.24			
	14-28				0.06-0.19		0.0-0.5	.24	.24			
	28-34				0.02-0.10		0.0-0.5	.10	.17	ļ		!
	34-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
42D:		 	 			 	 	İ	 		 	
Amery	0-3	4-12	1.05-1.25	0.60-2.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	5	3	86
I	3-22	4-15	1.50-1.70	0.60-2.00	0.09-0.19		0.0-0.5	.24	.24			
	22-34			0.20-0.60	,		0.0-0.5	.24	.24			
	34-41			0.20-0.60	,		0.0-0.5	.24	.24			!
	41-57			0.20-0.60			0.0-0.5	.20	.28			
	57-71 71-80				0.07-0.16		0.0-0.5	.20	.28 .28			
	71-80	4-15	1.60-2.00 	0.02-0.20	0.02-0.05	0.0-2.9	0.0-0.5	.20	.20		 	
43B:							Ì	İ		i		i
Antigo	0 - 9	8-15	1.25-1.55	0.60-2.00	0.20-0.24	0.0-2.9	1.0-3.0	.37	.37	4	5	56
	9-12	8-15	1.35-1.55	0.60-2.00	0.20-0.22	0.0-2.9	0.0-1.0	.43	.43			
	12-19			0.60-2.00	,		0.0-0.5	.43	.43			
	19-28			0.60-2.00			0.0-0.5	.43	.43	ļ		!
	28-31				0.05-0.19		0.0-0.5	.24	.24			
	31-33 33-60		1.55-1.70 1.55-1.80	0.60-2.00	0.05-0.19		0.0-0.5	.24	.24 .15			
	33-60	0-5	1.55-1.60	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15		 	
43C:					İ		İ	i	i	i		i
Antigo	0 - 9	8-15	1.25-1.55	0.60-2.00	0.20-0.24	0.0-2.9	1.0-3.0	.37	.37	4	5	56
I	9-12	8-15	1.35-1.55	0.60-2.00	0.20-0.22	0.0-2.9	0.0-1.0	.43	.43			
I	12-19			0.60-2.00			0.0-0.5	.43	.43			
	19-28				0.16-0.22		0.0-0.5	.43	.43			!
	28-31			0.60-2.00	,		0.0-0.5	.24	.24			
	31-33 33-60		1.55-1.70 1.55-1.80	0.60-2.00	0.05-0.19		0.0-0.5	.24	.24 .15			
	33-60	0-5	1.55-1.60	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15		 	
63A:					İ		İ	i	i	i		i
Crystal Lake	0-8	8-20	1.35-1.55	0.60-2.00	0.20-0.24	0.0-2.9	2.0-4.0	.37	.37	5	5	56
	8-12			0.60-2.00	1		0.0-1.0	.43	.43			
	12-20			0.60-2.00			0.0-0.5	.43	.43			
	20-32	1		0.60-2.00 0.20-0.60	1		0.0-0.5	.43	.43			
	32-60	8-20 	1.40-1.65 	0.20-0.60	0.20-0.22	0.0-2.9 	0.0-0.5	.37	.37		 	
63B:							Ì	İ		i		i
Crystal Lake	8 - 0			0.60-2.00	,		2.0-4.0	.37	.37	5	5	56
	8-12			0.60-2.00	,		0.0-1.0	.43	.43	ļ		!
	12-20			0.60-2.00	,		0.0-0.5	.43	.43			
	20-32 32-60			0.60-2.00 0.20-0.60	,		0.0-0.5	.43	.43 .37	 	[[I I
	32-00	5-20	1	3.20-0.00		0.0-2.9	0.0-0.5	.37	.37			
63C:		į			İ	İ	į	į	i	į	į	i
Crystal Lake	0 - 8			0.60-2.00	,		2.0-4.0	.37	.37	5	5	56
I	8-12			0.60-2.00	,		0.0-1.0	.43	.43		[[
Į.	12-20			0.60-2.00	,		0.0-0.5	.43	.43	ļ		ļ
	20-32			0.60-2.00	,		0.0-0.5	.43	.43			
	32-60	8-20	11.40-1.65	0.20-0.60	10 20-0 22	0.0-2.9	0.0-0.5	.37	.37	1	1	1

Table 23.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	 Clay	 Moist bulk	Permea- bility	 Available water	 Linear extensi-	 Organic matter	Erosi	on fac	tors	Wind erodi- bility	
and soil name			density	BILITY	capacity	bility	Matter	Kw	 Kf	 T	group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	i i	İ	i		İ
į		į			j	j	Ì	İ	į	ĺ	İ	j
64A:]				
Totagatic	0-4		0.15-0.45		0.35-0.45		55-85	.02	.02	5	8	0
	4-8 8-17		1.40-1.65 1.40-1.65		0.05-0.15		0.0-0.5	1.10	.15			
I	17-28		1.40-1.65		0.05-0.15		0.0-0.5	1.10	1.15	 	 	
	28-46		1.40-1.65		0.05-0.10		0.0-10	.10	.15	İ		i
İ	46-70		1.40-1.65		0.02-0.10		0.0-0.5	.10	.15	ĺ	i	İ
j	70-80	0-10	1.40-1.65	6.00-20	0.02-0.10	0.0-2.9	0.0-0.5	.10	.15	İ	į	İ
ļ]				
Winterfield	0-7		0.90-1.50		0.09-0.11		2.0-4.0	.10	.10	5	2	134
	7-60	0-10	1.55-1.65	6.00-20	0.04-0.10	0.0-2.9	0.0-0.5	.10	.17			
69C:			l I		l I	 	l I				 	l I
Keweenaw	0-2	2-10	 1.35-1.60	2.00-6.00	0.10-0.12	0.0-2.9	1.0-2.0	.10	.10	5	2	134
	2-4			2.00-6.00	,		0.5-1.0	.17	.24		-	-0
i	4-16			2.00-6.00			0.0-0.5	.17	.24	i	i	İ
į	16-20	2-10	1.55-1.80	2.00-6.00	0.05-0.10	0.0-2.9	0.0-0.5	.17	.24	İ	į	İ
İ	20-27	2-10	1.55-1.80	0.60-6.00	0.05-0.10	0.0-2.9	0.0-0.5	.17	.24	ĺ	į	İ
I	27-43	2-15	1.55-1.80	0.60-6.00	0.05-0.10	0.0-2.9	0.0-0.5	.17	.24			
I	43-75			0.60-6.00	,		0.0-0.5	.17	.24			
ļ	75-80	2-10	1.50-1.70	2.00-6.00	0.05-0.10	0.0-2.9	0.0-0.5	.17	.17			
										_		
Sayner	0-2 2-4		1.25-1.45 1.35-1.55	2.00-6.00	0.08-0.12		1.0-3.0	1.10	.10	5	2	134
	4-7		1.35-1.65		0.04-0.11		1.0-2.0	1.10	1.10		 	
l I	7-14		1.35-1.65		0.03-0.11		1.0-2.0	.02	.02	 	 	
i	14-22		1.45-1.70		0.03-0.11	•	0.0-0.5	.02	.02	i	<u> </u>	i
İ	22-60		1.55-1.80		0.01-0.07		0.0-0.5	.10	.15	į	į	i
İ		İ	İ		İ		İ	İ	ĺ	ĺ	ĺ	ĺ
Vilas	0-2		1.35-1.65		0.09-0.12		1.0-3.0	.10	.10	5	2	134
	2-4		1.35-1.65		0.09-0.11		0.5-1.0	.10	.10			
ļ	4-11		1.50-1.65		0.09-0.11		1.0-2.0	.10	.10	ļ		ļ
I	11-23		1.50-1.70		0.05-0.10		0.0-0.5	.02	.02			
	23-32 32-80		1.50-1.70 1.50-1.70		0.05-0.07		0.0-0.5	.02	.02		 	l I
l I	32-00	0-3	1.30-1.70	0.00-20	0.03-0.07	0.0-2.9	0.0-0.3	.02	.02	 	 	
69E:					i	! 	i	i		i	! 	i
Keweenaw	0-2	2-10	1.35-1.60	2.00-6.00	0.10-0.12	0.0-2.9	1.0-2.0	.10	.10	5	2	134
ĺ	2-4	2-15	1.45-1.80	2.00-6.00	0.09-0.14	0.0-2.9	0.5-1.0	.17	.24	ĺ	İ	ĺ
I	4-16			2.00-6.00	,		0.0-0.5	.17	.24			
ļ	16-20			2.00-6.00	1		0.0-0.5	.17	.24	ļ		
ļ	20-27			0.60-6.00			0.0-0.5	.17	.24	ļ		ļ
	27-43			0.60-6.00	,		0.0-0.5	.17	.24			
l	43-75 75-80			0.60-6.00 2.00-6.00	,		0.0-0.5	1.17	.24 .17	l I	 	l I
l I	75-00	2-10	1.30-1.70 	2.00-0.00		0.0-2.5	0.0-0.5	•=/	• • • /		 	İ
Sayner	0-2	2-10	1.25-1.45	2.00-6.00	0.08-0.12	0.0-2.9	1.0-3.0	.10	.10	5	2	134
i	2-4	0-10	1.35-1.55	2.00-20	0.04-0.11	0.0-2.9	0.5-1.0	.10	.10	İ	į	İ
I	4-7	0-10	1.35-1.65	2.00-20	0.03-0.11	0.0-2.9	1.0-2.0	.10	.10			
I	7-14		1.35-1.65		0.03-0.11			.02	.02			
	14-22		1.45-1.70		0.03-0.11		0.0-0.5	.02	.02			
	22-60	0-5	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
 	0-2	2-10	 1.35-1.65	6 00-20	0.09-0.12	 0 0-2 0	1.0-3.0	.10	 .10	 5	 2	134
v + + a p	2-4		1.35-1.65 1.35-1.65		0.09-0.12		1	1.10	.10	5	-	1 134
I I	4-11		1.50-1.65		0.09-0.11			1.10	1.10	i		
	11-23		1.50-1.70		0.05-0.10	•		.02	.02	i	İ	İ
İ	23-32		1.50-1.70		0.05-0.07			.02	.02	i	į	İ
	32-80		1.50-1.70			0.0-2.9	0.0-0.5	.02	.02	i	i	i

Table 23.--Physical Properties of the Soils--Continued

Map symbol	Depth	 Clay	 Moist	Permea-	 Available		Organic	Erosi	on fac	tors	erodi-	Wind erodi
and soil name		 	bulk density	bility	water capacity	extensi- bility	matter	 Kw	 Kf	 T	bility group	bility index
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	İ		İ		i i
82B:		 							 			
Cutaway	0-10	2-14	1.45-1.55	6.00-20	0.10-0.12	0.0-0.0	0.5-2.0	.10	.10	5	2	134
-	10-21		1.50-1.60		0.09-0.11	0.0-0.0	0.2-0.8	j	i	į	į	į
I	21-24			2.00-6.00	,		0.0-0.5					
	24-35				0.16-0.19		0.0-0.5			!		
	35-53 53-80	1			0.16-0.19		0.0-0.5				 	
		İ						i	<u> </u>	į	İ	i
Branstad	0 - 9	1		0.60-2.00	1		1.0-2.0	.24	.24	5	3	86
	9-14			0.60-2.00	,		0.0-0.5	.28	.28			
	14-20 20-45			0.60-2.00	,		0.0-0.5	.28	.28 .10		 	
	45-55			0.60-2.00	,		0.0-0.5	1.10	1.10		 	
	55-68			0.60-2.00	,		0.0-0.5	.32	.32	i		i
į	68-80			0.20-2.00			0.0-0.5	.32	.32	İ	İ	İ
82C:												
82C: Cutaway	0-10	 2-14	 1.45-1.55	 6.00-20	0.10-0.12	0.0-0.0	0.5-2.0	.10	1 .10	 5	2	134
	10-21		1.50-1.60		0.09-0.11		0.2-0.8				-	
i	21-24			2.00-6.00	0.15-0.17	0.0-2.9	0.0-0.5	j		į	İ	i
İ	24-35	16-28	1.45-1.55	0.60-2.00	0.16-0.19	3.0-5.9	0.0-0.5			ĺ	İ	İ
	35-53	1			0.16-0.19		0.0-0.5					
	53-80	12-24	1.55-1.80	0.20-2.00	0.15-0.19	0.0-2.9	0.0-0.5					
Branstad	0-9	 9-17	 1.50-1.60	0.60-2.00	0.13-0.18	0.0-2.9	1.0-2.0	.24	.24	 5	3	86
i	9-14			0.60-2.00	,		0.0-0.5	.28	.28	i	İ	i
I	14-20	13-25	1.55-1.65	0.60-2.00	0.10-0.19	0.0-2.9	0.0-0.5	.28	.28			
	20-45			0.60-2.00	,		0.0-0.5	.10	.10			[
	45-55			0.60-2.00	,		0.0-0.5	.10	.10			
	55-68 68-80			0.60-2.00	,		0.0-0.5	32	32			
	00-00	13-25	1.55-1.60	0.20-2.00		0.0-2.9	0.0-0.5	.32	.32	İ	 	
83A:		İ		İ	j	İ		i	İ	į	į	į
Smestad	0-10		1.40-1.60		0.10-0.12		1.5-3.5	.15	.15	5	2	134
	10-32		1.55-1.65		0.09-0.11		0.2-0.8			ļ		!
	32-37 37-57			0.60-2.00	0.15-0.17		0.0-0.5					
	57-80	1			0.08-0.12						 	
								i		i	İ	İ
85B:												
Taylor	0-9 9-14			0.60-2.00	,		1.0-3.0	.43	.43	3	3	86
	14-25			0.20-2.00	,						 	
				0.01-0.20	,					i		
	32-60			0.01-0.20						į	İ	i
								-				
85C: Taylor	0-9	 10-20	 1 35_1 55	0.60-2.00	 0 16-0 18		1 0-3 0	43	 43	 a	 3	86
layioi				0.20-2.00	,					3	3	80
				0.01-0.06	,					i		i
i	25-32	55-80	1.40-1.55	0.01-0.20	0.08-0.12	9.0-12.0	0.0-0.5	j	i	į	į	į
	32-60	50-80	1.45-1.55	0.01-0.20	0.08-0.12	9.0-12.0	0.0-0.5					[
86A:		 										
Indus	0-9	28-40	 1.20-1.40	0.20-0.60	0.19-0.23	3.0-5.9	1.0-4.0	.32	.32	5	 4	86
				0.02-0.06	,					į	į -	i
				0.02-0.06	,					į	į	į
İ	25-39			0.02-0.06	,				.28			
	39-60	50-85	1.30-1.50	0.02-0.06	0.10-0.14	6.0-8.9	0.0-0.5	.28	.28	1	1	1

Table 23.--Physical Properties of the Soils--Continued

Map symbol	 Depth	Clay	 Moist	Permea-	Available		Organic	Erosi	on fac	tors	erodi-	Wind erodi-
and soil name	 	 	bulk density	bility	water capacity	extensi-	matter	 Kw	 Kf	 T	bility	bility index
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	İ				Ī
86A: Alango	 0-9	 20_40	 1.20-1.40	0.20-0.60	0.19-0.23	3.0-5.9	1.0-4.0	.32	.32	 5	 4	86
Alango	0-9 9-10		1.25-1.45	0.20-0.60	0.19-0.23		0.5-1.0	32	32	3	**	00
	10-28		1.30-1.40		1	13.5-18.9	0.0-0.5	.28	.28		 	1
	28-60		1.35-1.45		1	10.5-18.9		.28	.28	i		i
	60-80	50-85	1.35-1.45	0.02-0.06	0.10-0.15	10.5-18.9	0.0-0.5	.28	.28	į		į
89A:	 		 			 				 		
Wildwood	0-12	0-0	 0.10-0.25	0.20-6.00	0.35-0.45		25-99	.02	.02	3	2	134
	12-17	40-55	1.35-1.45	0.06-0.20	0.00-0.04	6.0-8.9	1.0-3.0	.28	.28	İ	İ	i
	17-24	60-80	1.35-1.45	0.06-0.20	0.00-0.04	6.0-8.9	0.0-0.5	.28	.28	İ	İ	İ
	24-60	60-75	1.40-1.55	0.01-0.20	0.00-0.04	6.0-8.9	0.0-0.5	.28	.28	į		
96B:			 			 				 		
Karlsborg	0-9	1-8	1.35-1.65	6.00-20	0.09-0.11	0.0-2.9	0.5-2.0	.02	.02	4	1	220
	9-28	1-8	1.45-1.65	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.15	.15			
	28-48		1.45-1.70		0.08-0.10	6.0-8.9	0.0-0.5	.28	.28			
	48-80	3-8	1.55-1.70	6.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15			
96C:		 										
Karlsborg	0-9	1-8	1.35-1.65	6.00-20	0.09-0.11	0.0-2.9	0.5-2.0	.02	.02	4	1	220
	9-28	1-8	1.45-1.65	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.15	.15			
	28-48	60-80	1.45-1.70	0.01-0.20	0.08-0.10	6.0-8.9	0.0-0.5	.28	.28			
	48-80 	3-8	1.55-1.70	6.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15			
96D:		 				i						
Karlsborg	0-9		1.35-1.65		0.09-0.11		0.5-2.0	.02	.02	4	1	220
	9-28		1.45-1.65		0.05-0.10		0.0-0.5	.15	.15			
	28-48		1.45-1.70		0.08-0.10		0.0-0.5	.28	.28	ļ		
	48-80 	3-8 	1.55-1.70 	6.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	 		
100B:	İ	İ				į i		į	İ	İ	İ	į
Menahga	0-2		1.40-1.65		0.06-0.08		0.5-2.0	.02	.02	5	1	220
	2-25		1.25-1.60		0.05-0.10		0.0-0.5	.10	.15	ļ		!
	25-80 	0-10	1.50-1.65 	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.10	.15	 		
100C:						i i				İ		İ
Menahga	0-1		0.15-0.30		0.55-0.65		65-85	.02	.02	5	1	220
	1-2		1.40-1.65		0.06-0.08		0.5-2.0	.02	.02	ļ		!
	2-25		1.25-1.60		0.05-0.10		0.0-0.5	.10	.15	ļ		
	25-80 	0-10	1.50-1.65 	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	1.10	.15	 		
100D:	İ	İ			İ	j i		i		İ	į	į
Menahga	0-1	•	0.15-0.30		0.55-0.65		65-85	.02	.02	5	1	220
	1-2		1.40-1.65		0.06-0.08		0.5-2.0	.02	'			
	2-25		1.25-1.60		0.05-0.10		0.0-0.5	.10	.15	ļ		
	25-80 	0-10	1.50-1.65 	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.10	1.15	 		
120B:		ĺ			į	į		į	į	į	į	į
Kost	0-9	•	1.30-1.50			0.0-2.9			.05	5	1	220
	9-25		1.30-1.50			0.0-2.9		.15				
	25-36		1.40-1.60			0.0-2.9		.15	'			
	36-42		1.40-1.60 1.40-1.60		1	0.0-2.9	0.0-0.5	1.15	.15	1		1
	42-60	U-5	1.4U-1.60	0.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15		 	1

Table 23.--Physical Properties of the Soils--Continued

Map symbol	Depth	 Clay	Moist bulk	Permea-	Available water	 Linear extensi-	Organic	Erosi	on fac	tors	erodi-	
and soil name		 	bulk density	bility	capacity	extensi-	matter	Kw	 Kf	 T	bility group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct			<u> </u>		
		İ					į	į	į	ĺ	į	ĺ
127D:	0.2	4 10	1 05 1 05	0.60-2.00	10 10 0 14		1020	24	24	 5	 3	 86
Amery	0-3 3-22	,		0.60-2.00	0.12-0.14		1.0-3.0	.24	.24	ɔ	3	86
	22-34	•		0.20-0.60	0.07-0.16		0.0-0.5	.24	.24	i		
i	34-41	4-15	1.65-1.90	0.20-0.60	0.07-0.16		0.0-0.5	.24	.24	į	į	İ
I	41-57	,		0.20-0.60	0.07-0.16	0.0-2.9	0.0-0.5	.20	.28			
	57-71	1		0.20-0.60	0.07-0.16		0.0-0.5	.20	.28			
	71-80	4-15	1.80-2.00	0.02-0.20	0.02-0.05	0.0-2.9	0.0-0.5	.28	.28	 	 	
Rosholt	0 - 4	4-10	 1.50-1.60	0.60-6.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	4	3	 86
i	4-10	3-12	1.70-1.80	0.60-6.00	0.05-0.16	0.0-2.9	0.0-1.0	.24	.24	j	į	į
I	10-14	5-14	1.70-1.80	0.60-6.00	0.05-0.16	0.0-2.9	0.0-1.0	.24	.24			
	14-28	•		0.60-6.00	0.06-0.19		0.0-0.5	.24	.24			
	28-34	•		0.60-6.00	0.02-0.10		0.0-0.5	.10	.17			
	34-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15	 	 	
127E:					i	 				İ		
Amery	0-3	4-12	1.05-1.25	0.60-2.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	5	3	86
I	3-22	,		0.60-2.00	0.09-0.19		0.0-0.5	.24	.24			
	22-34	1		0.20-0.60	0.07-0.16		0.0-0.5	.24	.24			
	34-41			0.20-0.60 0.20-0.60	0.07-0.16		0.0-0.5	.24	.24			
	41-57 57-71	,		0.20-0.60	0.07-0.16		0.0-0.5	.20	.28	l I	 	l I
	71-80	1		0.02-0.20	0.02-0.05		0.0-0.5	.28	.28	İ		!
İ		į			İ	İ	Ì	į	į	ĺ	İ	İ
Rosholt	0-4	1		0.60-6.00	0.12-0.14		1.0-3.0	.24	.24	4	3	86
	4-10 10-14	•		0.60-6.00	0.05-0.16		0.0-1.0	.24	.24			
	14-28	•		0.60-6.00	0.05-0.16		0.0-1.0	.24	.24	 	 	
	28-34	•		0.60-6.00	0.02-0.10		0.0-0.5	.10	.17	i	<u> </u>	İ
i	34-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15	İ	į	į
					İ		ļ	ļ				
151A: Bluffton	0 - 8	10 22		0.60-2.00	0.16-0.24	1 0 2 0	3.0-7.0	.32	.32	 5	 5	 56
Bluffton	0-8 8-19	•		0.60-2.00	0.16-0.24		0.0-0.5	.32	32	ɔ	5 	36
	19-22	•		0.60-2.00	0.09-0.18		0.0-0.5	.32	.32	i	<u> </u>	
i	22-26	10-25	1.55-1.70	0.20-2.00	0.09-0.18	3.0-5.9	0.0-0.5	.32	.32	į	į	į
I	26-38	10-25	1.55-1.70	0.20-2.00	0.09-0.18	3.0-5.9	0.0-0.5	.32	.32			
	38-60	10-25	1.55-1.70	0.20-2.00	0.09-0.18	3.0-5.9	0.0-0.5	.32	.32			
152A:						 	 	1	 	l I	 	l I
Alstad	0-9	6-18	 1.35-1.55	0.60-2.00	0.16-0.24	0.0-2.9	2.0-5.0	.32	.32	5	5	56
i	9-15	•		0.60-2.00	'		0.5-1.0	.24	.24	İ	i	İ
İ	15-18	13-25	1.55-1.65	0.60-2.00	0.09-0.18	3.0-5.9	0.1-0.8	.24	.24	ĺ	ĺ	ĺ
	18-24			0.60-2.00			0.1-0.8	.24	.24			
	24-49			0.60-2.00	1		0.0-0.5	.32	.32			
	49-60	13-17	1.55-1.80 	0.20-2.00	0.09-0.18	0.0-2.9 	0.0-0.5	.28	.28	 	 	l I
154E:												
Cushing	0-5	,		0.60-2.00			2.0-5.0	.32	.32	5	3	86
I	5-15	•		0.60-2.00	'				.24	ļ	[!
	15-33			0.60-2.00		•	0.1-0.8	.24	.24	ļ		
	33-57 57-65			0.60-2.00 0.60-2.00		•		.24	.24		 	l I
	65-73	,		0.60-2.00					32	 	 	
	73-80	,		0.20-0.60			0.0-0.5	.28	.28	i		İ
i		İ			İ		İ	İ	İ	İ	İ	İ

Table 23.--Physical Properties of the Soils--Continued

Map symbol	 Depth	 Clay	 Moist	Permea-	 Available		 Organic	Erosi	on fac	tors	erodi-	Wind erodi-
and soil name	 	 	bulk density	bility	water capacity	extensi- bility	matter	 Kw	 Kf	 T	bility	bility index
	In	Pct	g/cc	In/hr	In/in	Pct	Pct			 		
		İ		,	, , , , , , , , , , , , , , , , , , ,		İ	į	İ	į	İ	į
156B:												
Magnor, very stony	0-4		1.35-1.55		0.18-0.24		1.0-3.0	.37	.37	4	8	0
	4-11		1.55-1.65		0.17-0.22		0.0-1.0	.43	.43	ļ		
	11-16 16-21		1.55-1.65 1.55-1.65		0.17-0.22		0.0-0.5	.43	.43			
	21-39		1.55-1.65 1.65-1.90		0.17-0.22		0.0-0.5	.28	.28		 	
	39-58		1.65-1.90		0.08-0.18		0.0-0.5	.28	.28	l	 	
	58-60	1	1.80-2.00		0.00-0.04		0.0-0.5	.28	.28	i		i
								i		i	İ	i
Magnor	0-8	7-17	1.35-1.55	0.60-2.00	0.18-0.24	0.0-2.9	1.0-3.0	.37	.37	4	5	56
	8-11	5-13	1.55-1.65	0.60-2.00	0.17-0.22	0.0-2.9	0.0-1.0	.43	.43	ĺ	İ	İ
	11-16	6-14	1.55-1.65	0.60-2.00	0.17-0.22	0.0-2.9	0.0-0.5	.43	.43			
	16-21		1.55-1.65		0.17-0.22		0.0-0.5	.43	.43			
	21-39		1.65-1.90		0.08-0.18		0.0-0.5	.28	.28			
	39-58		1.65-1.90		0.08-0.18		0.0-0.5	.28	.28	ļ		!
	58-60	3-14	1.80-2.00	0.01-0.06	0.00-0.04	0.0-2.9	0.0-0.5	.28	.28	ļ		
157B:						 	1					
Freeon, very stony	 0-4	 7-17	 1.35-1.55	0.60-2.00	0.18-0.24	0.0-2.9	1.0-3.0	.37	.37	4	 8	0
riedon, very scony	4-19	1	1.30-1.60		0.18-0.22		0.1-1.0	.43	.43	*	0	
	19-39		1.70-1.80		0.08-0.18		0.0-0.5	.28	.28	i		
	39-53	3-14	1.65-1.90	0.06-0.60	0.08-0.18		0.0-0.5	.28	.28	i	İ	i
	53-80	3-14	1.80-2.00	0.01-0.06	0.08-0.18	0.0-2.9	0.0-0.5	.28	.28	İ	İ	i
		ĺ	İ		İ	ĺ	İ	İ		ĺ		İ
Freeon	0-4		1.35-1.55		0.18-0.24	0.0-2.9	1.0-3.0	.37	.37	4	5	56
	4-19		1.30-1.60		0.18-0.22		0.1-1.0	.43	.43			
	19-39		1.70-1.80		0.08-0.18		0.0-0.5	.28	.28	ļ		!
	39-53		1.65-1.90		0.08-0.18		0.0-0.5	.28	.28	ļ		
	53-80	3-14	1.80-2.00	0.01-0.06	0.08-0.18	0.0-2.9	0.0-0.5	.28	.28			
157C:		 	 		1	l I	l I		 		 	
Freeon, very stony	0-4	 7-17	1.35-1.55	0.60-2.00	0.18-0.24	0.0-2.9	1.0-3.0	.37	.37	4	8	0
1100011, 1017 200117	4-19		1.30-1.60		0.18-0.22		0.1-1.0	.43	.43	i -		
	19-39		1.70-1.80		0.08-0.18		0.0-0.5	.28	.28	i	İ	i
	39-53	3-14	1.65-1.90	0.06-0.60	0.08-0.18	0.0-2.9	0.0-0.5	.28	.28	İ	İ	İ
	53-80	3-14	1.80-2.00	0.01-0.06	0.08-0.18	0.0-2.9	0.0-0.5	.28	.28	ĺ		İ
Freeon	0-4		1.35-1.55		0.18-0.24		1.0-3.0	.37	.37	4	5	56
	4-19		1.30-1.60		0.18-0.22		0.1-1.0	.43	.43	ļ		!
	19-39		1.70-1.80		0.08-0.18		0.0-0.5	.28	.28			
	39-53 53-80		1.65-1.90 1.80-2.00		0.08-0.18		0.0-0.5	.28	.28		 	
	33-80	3-14	1.80-2.00	0.01-0.00	0.08-0.18	0.0-2.9	0.0-0.3	.20	.20	l	 	
160A:							i	i		i		i
Oesterle	0-7	8-15	1.40-1.70	0.60-6.00	0.12-0.14	0.0-2.9	2.0-3.0	.20	.20	4	3	86
	7-11	8-15	1.40-1.70	0.60-6.00	0.10-0.19	0.0-2.9	0.5-1.0	.24	.24	İ	İ	İ
	11-31	7-17	1.40-1.70	0.60-6.00	0.08-0.19	0.0-2.9	0.0-0.5	.24	.24	ĺ	İ	İ
	31-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
		[!	ļ				ļ
165B:												
Elderon	0-7		1.50-1.60		0.07-0.14		1.0-2.0	1.15	.20	3	3	56
	7-15		1.50-1.60		0.06-0.09		1	.15	.20	1		
	15-44 44-60		1.55-1.80 1.60-1.80		0.01-0.07		0.0-0.0	10	1.15	I I	 	1
	11-00	0-0	1 00 - 1 - 00	20-00	10.01-0.02	0.0-2.9	0.0-0.0		.13	1	!	!

Table 23.--Physical Properties of the Soils--Continued

Map symbol	Depth	 Clay	Moist	Permea-	Available		Organic	Erosi	on fac	tors	erodi-	Wind erodi-
and soil name		 	bulk density	bility	water capacity	extensi- bility	matter	Kw	 Kf	 T	bility group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	1	l	<u> </u>		1
			3,	,	,			İ	İ	İ	İ	i
185B:		į	į į		j	j j		İ	j	İ	į	į
Tradelake	0-9	10-20	1.35-1.45	0.60-2.00	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28	4	3	86
	9-13				0.12-0.19		0.2-0.8					
	13-21				0.12-0.19		0.0-0.5					
	21-25				0.12-0.19		0.0-0.5					!
	25-48			0.01-0.20	0.08-0.12					ļ		!
	48-52				0.08-0.12							
	52-80	1-8	1.55-1.70	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5					
Taylor		10.00		0 60 2 00			1.0-3.0	42	.43	 3	 3	 86
Taylor	0-9 9-14			0.60-2.00 0.20-2.00	0.16-0.18		0.2-0.8	.43	.43	3 	3	86
	14-25				0.17-0.22					 	 	
	25-32				0.03-0.11					l I	 	
	32-60		1.45-1.55		0.08-0.12					l I	 	i
	32 00	30 00	1.13 1.33	0.01 0.10		3.0 12.0	0.0 0.5	ŀ	 	 	 	i
185C:						i		i	 	İ		i
Tradelake	0-9	10-20	1.35-1.45	0.60-2.00	0.16-0.18	0.0-2.9	1.0-3.0	.28	.28	4	3	86
	9-13				0.12-0.19		0.2-0.8			i		i
i	13-21	8-12	1.55-1.65	0.60-2.00	0.12-0.19	0.0-2.9	0.0-0.5	i	i	i	İ	i
İ	21-25	8-12	1.55-1.65	0.60-2.00	0.12-0.19	0.0-2.9	0.0-0.5	j	i	i	İ	i
İ	25-48	60-80	1.25-1.50	0.01-0.20	0.08-0.12	9.0-11.9	0.0-0.5	j	i	i	İ	i
	48-52	60-80	1.25-1.50	0.01-0.20	0.08-0.12	9.0-11.9	0.0-0.5	j		İ	İ	İ
	52-80	1-8	1.55-1.70	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5					
Taylor	0-9	10-20	1.35-1.55	0.60-2.00			1.0-3.0	.43	.43	3	3	86
	9-14	10-40	1.45-1.55	0.20-2.00	0.17-0.22	3.0-5.9	0.2-0.8					
	14-25				0.09-0.11							
	25-32			0.01-0.20	0.08-0.12							
	32-60	50-80	1.45-1.55	0.01-0.20	0.08-0.12	9.0-12.0	0.0-0.5					!
185D:												
Tradelake	0-9			0.60-2.00			1.0-3.0	.28	.28	4	3	86
	9-13			0.60-2.00			0.2-0.8					
	13-21 21-25			0.60-2.00	0.12-0.19		0.0-0.5		 			
	25-48			0.60-2.00 0.01-0.20	0.12-0.19		0.0-0.5 0.0-0.5			 	 	
	48-52			0.01-0.20	1					 	 	
	52-80		1.55-1.70		0.05-0.10		0.0-0.5			l I	 	i
	JZ-00	1-0	1.33-1.70 	0.00-20		0.0-2.5	0.0-0.5		 	 	 	i
Taylor	0-9	10-20	 1.35-1.55	0.60-2.00	0.16-0.18	0.0-2.9	1.0-3.0	.43	.43	3	3	86
-	9-14				0.17-0.22		0.2-0.8					i
i	14-25				0.09-0.11	9.0-12.0	0.0-0.5	i	i	i	İ	i
İ	25-32	55-80	1.40-1.55	0.01-0.20	0.08-0.12	9.0-12.0	0.0-0.5	j	i	i	İ	i
	32-60	50-80	1.45-1.55	0.01-0.20	0.08-0.12	9.0-12.0	0.0-0.5	j	i	İ	į	į
185E:												
Tradelake	0-9	10-20	1.35-1.45	0.60-2.00	0.16-0.18	0.0-2.9	1.0-3.0		.28	4	3	86
	9-13			0.60-2.00	,			1				
	13-21			0.60-2.00	1				!			
	21-25	1		0.60-2.00					!			
		1		0.01-0.20	1							
	48-52			0.01-0.20								
	52-80	1-8	1.55-1.70	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5					
ma1	0.0			0.60.000			1 0 2 0					
Taylor		:		0.60-2.00	•				.43	3	3	86
	9-14			0.20-2.00	1			1		1	 	I
	14-25 25-32			0.01-0.06 0.01-0.20					 	I I	 	I
	32-60			0.01-0.20	,				 	I I	 	

Table 23.--Physical Properties of the Soils--Continued

Map symbol	 Depth	 Clay	Moist	Permea-	Available		Organic	Erosi	on fac	cors	erodi-	Wind erodi-
and soil name		 	bulk density	bility	water capacity	extensi- bility	matter	Kw	 Kf	 T	bility group	bility index
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	i	i	İ	<u> </u>	i i
İ		ĺ	į į		İ		ĺ	İ	ĺ	ĺ	ĺ	ĺ
189A:							!					
Siren	0-9				0.15-0.24		3.0-4.0	.24		5	5	56
	9-13			0.60-2.00			0.0-0.5	.24	1			
	13-20 20-43	1		0.60-2.00	0.06-0.19		0.0-0.0	.24				
	20-43 43-80			0.06-0.60	0.08-0.12		0.0-0.0	.28	.28	 	 	-
	43-60	40-00	1.33-1.30	0.00-0.00	0.08-0.12	0.0-9.0	0.0-0.0	.20	.20	 	 	
193A:		i	i i				İ	i	i	İ	İ	i
Minocqua	0-4	0-0	0.15-0.45	2.00-6.00	0.35-0.45		30-60	.02	.02	4	8	0
j	4-15	10-17	1.50-1.60	0.60-2.00	0.11-0.19	0.0-2.9	0.0-2.0	.37	.37	ĺ	İ	İ
	15-28	7-17	1.40-1.70	0.60-2.00	0.06-0.19	0.0-2.9	0.0-0.5	.32	.32			
	28-60	0-5	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
337A: Plover	 0-10	20		0.60-2.00			2.0-3.0	.28	.28	 5	 3	86
Plover	10-10			0.60-2.00			0.5-1.0	.24	1	ɔ	3	86
	13-18			0.60-2.00			0.5-1.0	.24	1	l I	 	
	18-32				0.12-0.17		0.5-1.0	.24	.24	i I	 	1
	32-60			0.20-0.60			0.0-0.5	.24	.24	i	İ	i
		į	j i		j	İ	İ	į	į	į	į	į
368B:		ĺ	į į		İ	ĺ	İ	İ	ĺ	ĺ	ĺ	İ
Mahtomedi	0-5		1.40-1.60		0.09-0.11	0.0-2.9	0.5-1.0	.10	.10	5	2	134
	5-8		1.40-1.50		0.02-0.07		0.0-0.5	.10	.10			-
	8-15		1.45-1.75		0.02-0.07		0.0-0.5	.05	.10	ļ	!	!
	15-30		1.45-1.75		0.02-0.07		0.0-0.5	.05	.10			
	30-60	0-10	1.45-1.75	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.05	.10	 	 	
Cress	 0-3	 5-18	 1.25-1.60	0.60-2.00	0.12-0.14	0.0-2.9	0.5-2.0	.24	.24	 3	3	86
	3-15						0.5-1.0	.24	.24	-		
	15-31		1.50-1.80		0.02-0.10		0.0-0.5	.17	.17	İ	İ	i
	31-36	0-8	1.50-1.80	6.00-20	0.02-0.10	0.0-2.9	0.0-0.5	.17	.17	İ	į	į
	36-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
							!					
368C:										_		
Mahtomedi	0-5		1.40-1.60		0.09-0.11		0.5-1.0		.10	5	2	134
	5-8 8-15		1.40-1.50 1.45-1.75		0.02-0.07		0.0-0.5	1.10	.10	 		
	15-30		11.45-1.75		0.02-0.07		0.0-0.5	.05	1.10	l I	 	
i	30-60		11.45-1.75		0.02-0.07		0.0-0.5	.05	1.10	İ		
			i					i		İ	İ	i
Cress	0-3	5-18	1.25-1.60	0.60-2.00	0.12-0.14	0.0-2.9	0.5-2.0	.24	.24	3	3	86
	3-15			0.60-2.00			0.5-1.0	.24	.24			
	15-31		1.50-1.80		0.02-0.10	0.0-2.9	0.0-0.5	.17	.17			
	31-36		1.50-1.80			0.0-2.9		.17	.17	ļ		!
	36-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
368D:		 	 			 	l I		 	 	 	
Mahtomedi	 0-5	2-15	 1.40-1.60	6.00-20	0.09-0.11	0.0-2.9	0.5-1.0	.10	.10	 5	2	134
	5-8		1.40-1.50		0.02-0.07		1		.10	-	i -	
i	8-15		1.45-1.75		0.02-0.07			.05		i	i	i
İ	15-30		1.45-1.75		0.02-0.07			.05		İ	į	İ
	30-60	0-10	1.45-1.75	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.05	.10			
		[!	1			!	!
Cress	0-3			0.60-2.00	0.12-0.14		1			3	3	86
	3-15			0.60-2.00					.24			
	15-31		1.50-1.80		0.02-0.10			.17	.17			
	31-36 36-60		1.50-1.80 1.55-1.80		0.02-0.10			1.17	.17 .15	I I	I I	I
	30-00	1 -0		3.00-20	3.31=3.07	0.0-2.9	0.0-0.5			1	1	1

Table 23.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	 Clay 	 Moist bulk	Permea- bility	Available water	 Linear extensi-	 Organic matter	Erosi	on fac	tors		Wind erodi-
and soil name		 	density	Diffey	capacity	bility	Maccel	Kw	Kf	T	group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	1	l	<u> </u>		
i		İ	į į		İ		İ	į	į	İ	į	i
368E:		İ	į į		İ		ĺ	Ì	ĺ	ĺ		İ
Mahtomedi	0 - 5	2-15	1.40-1.60	6.00-20	0.09-0.11	0.0-2.9	0.5-1.0	.10	.10	5	2	134
	5-8	0-10	1.40-1.50	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.10	.10			
	8-15	1	1.45-1.75		0.02-0.07	0.0-2.9	0.0-0.5	.05	.10			
	15-30	1	1.45-1.75		0.02-0.07		0.0-0.5	.05	.10			
	30-60	0-10	1.45-1.75	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.05	.10	ļ		!
Cress	0-3			0.60-2.00	0.12-0.14		0.5-2.0	.24	.24	3	3	86
	3-15			0.60-2.00	0.12-0.17		0.5-1.0	.24	.24			
	15-31		1.50-1.80		0.02-0.10		0.0-0.5	.17	.17			
	31-36		1.50-1.80		0.02-0.10		0.0-0.5	.17	1.17			
	36-60	T-0	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
380B:		 	 			 	l I	l I			1	1
Cress	0-3	 5-19	 1.25-1 60	0.60-2.00	0.12-0.14	0.0-2 9	0.5-2.0	.24	.24	 3	3	 86
C1088	3-15		1.40-1.70		0.12-0.14		0.5-2.0	.24	.24			30
	15-31	1	1.50-1.80		0.12-0.17		0.0-0.5	1.17	1.17	i		1
	31-36	1	1.50-1.80		0.02-0.10		0.0-0.5	1 .17	1 .17	i		i
	36-60	1	1.55-1.80		0.01-0.07		0.0-0.5	.10	1.15	i	İ	i
		- 0							125	i		i
Rosholt	0-8	4-10	1.50-1.60	0.60-6.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	4	3	86
	8-10			0.60-6.00	0.05-0.16		0.0-1.0	.24	.24	i		i
i	10-14			0.60-6.00	0.05-0.16		0.0-1.0	.24	.24	i	İ	i
i	14-28			0.60-6.00	0.06-0.19		0.0-0.5	.24	.24	i	İ	i
i	28-34			0.60-6.00	0.02-0.10	0.0-2.9	0.0-0.5	.10	.17	İ	İ	i
i	34-60		1.55-1.80		0.01-0.07		0.0-0.5	.10	.15	İ	İ	i
i		İ	İ		i		İ	i	i	İ	İ	i
380C:		İ	j i		i	İ	İ	İ	İ	İ	į	i
Cress	0-3	5-18	1.25-1.60	0.60-2.00	0.12-0.14	0.0-2.9	0.5-2.0	.24	.24	3	3	86
	3-15	5-18	1.40-1.70	0.60-2.00	0.12-0.17	0.0-2.9	0.5-1.0	.24	.24	ĺ	İ	İ
	15-31	0-8	1.50-1.80	6.00-20	0.02-0.10	0.0-2.9	0.0-0.5	.17	.17			
	31-36	0-8	1.50-1.80	6.00-20	0.02-0.10	0.0-2.9	0.0-0.5	.17	.17			
	36-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
Rosholt	0 - 8	4-10	1.50-1.60	0.60-6.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	4	3	86
	8-10	3-12	1.70-1.80	0.60-6.00	0.05-0.16		0.0-1.0	.24	.24			
	10-14	5-14	1.70-1.80	0.60-6.00	0.05-0.16	0.0-2.9	0.0-1.0	.24	.24			
	14-28			0.60-6.00	0.06-0.19		0.0-0.5	.24	.24			
	28-34	,		0.60-6.00	0.02-0.10		0.0-0.5	.10	.17			
	34-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15	ļ		!
								ļ	!	ļ		!
380D:												
Cress	0-3	:		0.60-2.00			!	.24	.24	3	3	86
	3-15			0.60-2.00				.24	.24			!
	15-31	,	1.50-1.80		0.02-0.10			.17	.17			!
	31-36		1.50-1.80		0.02-0.10			.17	.17			
	36-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
Dankala	0 0	4 10	1 50 1 60	0 60 6 00			1020	24	24	4		
Rosholt	0-8			0.60-6.00					.24	4	3	86
	8-10 10-14			0.60-6.00 0.60-6.00					.24			
	14-28			0.60-6.00					.24		1	
	28-34			0.60-6.00	'		1		1.17		1	1
	28-34 34-60		1.55-1.80		0.02-0.10		0.0-0.5	1.10	1.15	l		1
	24.00	1-0		3.00-20		0.0-2.3	0.0-0.3	.10	.13	ŀ		1
383B:						! 	! 	1		i		1
Mahtomedi	0-5	2-15	 1.40-1.60	6.00-20	0.09-0.11	0.0-2 9	0.5-1 0	.10	.10	5	2	134
	5-8	,	1.40-1.50		0.03-0.11				1.10	i	<u> </u>	-31
	8-15	1	1.45-1.75		0.02-0.07				1.10	i		i
	15-30		1.45-1.75		0.02-0.07				1.10	i	İ	i
	30-60		1.45-1.75		0.02-0.07				1.10	i	İ	i
	••				1					1	1	

Table 23.--Physical Properties of the Soils--Continued

Map symbol	 Depth	 Clay	Moist	Permea-	Available		Organic	Erosi	on fac	Lors	erodi-	Wind erodi
and soil name		 	bulk density	bility	water capacity	extensi- bility	matter	 Kw	 Kf	 T	bility group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	İ	İ	i		İ
		ĺ	İ		İ		ĺ	İ	İ		ĺ	İ
383C:												
Mahtomedi	0-5	1	1.40-1.60		0.09-0.11		0.5-1.0	.10	.10	5	2	134
	5-8 8-15	!	1.40-1.50 1.45-1.75		0.02-0.07		0.0-0.5	.10	1.10	 	 	
	15-30	!	1.45-1.75 1.45-1.75		0.02-0.07		0.0-0.5	.05	1.10	l I	 	
	30-60	!	1.45-1.75		0.02-0.07		0.0-0.5	.05	.10	i	<u> </u>	i
	İ	j	j i		İ	j	į	į	į	İ	į	İ
383D:												
Mahtomedi	0-5	1	1.40-1.60		0.09-0.11		0.5-1.0	1.10	.10	5	2	134
	5-8 8-15	!	1.40-1.50 1.45-1.75		0.02-0.07		0.0-0.5	.10	1.10	 		
	15-30	!	1.45-1.75 1.45-1.75		0.02-0.07		0.0-0.5	.05	.10	l I	 	
	30-60		1.45-1.75		0.02-0.07		0.0-0.5	.05	.10	İ		i
	İ	İ	į į		İ	İ	į	İ	İ	İ	į	İ
392C:												
Rockmarsh	0-1 1-8	1	0.15-0.30 1.45-1.55		0.45-0.55		65-85 1.0-2.0	.02 .15	.02	1	8	0
	8-23		1.45-1.55 1.60-1.70		0.11-0.24		0.2-0.8	.13	.37	l I	 	1
	23-46		1.45-1.55		0.07-0.17		0.0-0.0	1.17	.24	 	 	i
	46-80		1.80-1.85		0.02-0.10		0.0-0.0	.17	.24	İ		i
							[[
Dairyland	0-1	!	0.15-0.30		0.45-0.55		60-85	.02	.02	1	3	56
	1-7	1	1.55-1.65		0.07-0.11		1.0-2.0	.02	.10			
	7-14 14-36	!	1.55-1.70 1.55-1.70		0.04-0.09		0.2-0.8	1.15	1.15	 		
	36-49	!	1.55-1.70 1.55-1.70		0.04-0.07		0.0-0.0	.10	.15	l I	 	
	49-80			0.01-0.06	0.01-0.05		0.0-0.0	.24	.24			i
	ĺ	İ	į į		İ	İ	Ì	İ	j	İ	İ	İ
Makwa	0-8	!		0.20-6.00	0.23-0.38		75-100	.02	.02	3	8	0
	8-16	!	1.25-1.45		0.06-0.16		4.0-10					
	16-43 43-65	!	1.25-1.45 1.60-1.70		0.06-0.10		0.2-0.8					
	65-80	!	1.65-1.85		0.03-0.03		0.0-0.5			 	 	
								İ		İ	İ	i
396B:		!					!				[!
Friendship	0-4	!	1.50-1.65		0.06-0.08		0.5-2.0	.02	.02	5	1	220
	4-29 29-60	1	1.35-1.65 1.50-1.70		0.05-0.07		0.0-0.5	.15	1.15	 		
	29-60	0-4	1.50-1.70 	6.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	 	 	
Wurtsmith	0-6	0-10	1.30-1.65	6.00-20	0.07-0.09	0.0-2.9	1.0-6.0	.02	.02	5	1	220
	6-33	0-5	1.40-1.60	6.00-20	0.06-0.07	0.0-2.9	0.0-0.5	.15	.15	ĺ	ĺ	ĺ
	33-60	0-5	1.50-1.65	6.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	ļ		
Grayling	 0-3	0.10	 1.30-1.65	6 00 20	0.07-0.09		1.0-6.0	.02	.02	 5	 1	 220
GrayIIng	0-3 3-15		1.30-1.65 1.30-1.65		0.07-0.03			1.15	'	5	+	220
	15-23		1.45-1.65		0.02-0.07			.15	.15	i I	 	
	23-60	!	1.45-1.65		0.02-0.07			.15		İ	İ	i
												ļ
397A: Perchlake	 0-9	 2_10	 1.40-1.50	6 00-20	0.10-0.12		0.5-2.0	 .10	 .10	 5	 2	 134
recultare	9-18	1	1.40-1.30 1.50-1.70		0.10-0.12			1.15	']	2	134
	18-42		1.40-1.65		0.05-0.10				1.15	i		i
	42-46		1.50-1.70		0.11-0.19			.24		i	į	i
	46-60	2-8	1.50-1.65	6.00-20	0.05-0.09	0.0-2.9	0.0-0.5	.15	.15	ļ	ļ	
200P.						 						
399B: Grayling	 0-3	 0-10	 1.30-1.65	6.00-20	0.07-0.09	0.0-2.9	1.0-6.0	.02	.02	 5	 1	 220
/	3-15		1.30-1.65		0.07-0.03			.15	'	i	i -	
	15-23		1.45-1.65		0.02-0.07			.15	'	i	į	i
	23-60		1.45-1.65		0.02-0.07			.15	'	İ	į	į
			ı İ		1							

Table 23.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Clay	 Moist bulk	Permea- bility	Available	 Linear extensi-	Organic matter		on fac		wind erodi- bility	1
and soil name		 	density	Dility	capacity	bility	matter	Kw	 Kf	 Tr	-	index
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	ICW		1	group	Index
				,	,			i	! 	i		i
399C:		İ	İ		İ		<u> </u>	i	İ	į	İ	i
Grayling	0-3	0-10	1.30-1.65	6.00-20	0.07-0.09	0.0-2.9	1.0-6.0	.02	.02	5	1	220
	3-15	0-10	1.30-1.65	6.00-20	0.05-0.07	0.0-2.9	0.3-0.5	.15	.15			
	15-23	,	1.45-1.65		0.02-0.07		0.0-0.5	.15	.15			!
	23-60	0-10	1.45-1.65	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.15	.15			
399D:		 	l I		1	 	 	l I	 	 	 	
Grayling	0-3	0-10	1.30-1.65	 6.00-20	0.07-0.09	0.0-2.9	1.0-6.0	.02	.02	 5	1 1	220
0147 11119	3-15	1	1.30-1.65		0.05-0.07		0.3-0.5	.15	.15		-	
	15-23		1.45-1.65		0.02-0.07	0.0-2.9	0.0-0.5	.15	.15	i	İ	i
	23-60	0-10	1.45-1.65	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.15	.15	i	j	į
406A:												
Loxley	0-13	1	0.30-0.40		0.45-0.55		70-90	.02	.02	3	8	0
	13-60	0-0	0.10-0.35	0.20-6.00	0.35-0.45		70-90	.02	.02	l I	 	
407A:		 	I I		I I	 	l I	l I	 	 	 	i
Seelyeville	0-80	0-0	0.10-0.25	0.20-6.00	0.35-0.45		25-99	.02	.02	3	8	0
			İ		İ	İ	ĺ	İ			ĺ	
Markey	0-32	0-0	0.15-0.45	0.20-6.00	0.35-0.45	i	55-85	.02	.02	2	8	0
	32-60	0-10	1.40-1.65	6.00-20	0.03-0.10	0.0-2.9	0.0-0.5	.10	.15			
			!		!							
410A:												
Seelyeville	0-80	0-0	0.10-0.25	0.20-6.00	0.35-0.45		25-99	.02	.02	3	8	0
Cathro	0-28	 0-0	 0 28-0 45	 0.20-6.00	0.35-0.45	 	 60-85	.02	 .02	 2	l I 8	 0
34323	28-49	1	1	0.20-2.00	0.11-0.22		0.0-0.5	.28	.28	-		
	49-60	1	1	0.20-2.00	0.11-0.22		0.0-0.5	.28	.28	İ	İ	i
		į	İ		j	İ	į	į	j	i	j	į
419A:												
Seelyeville	0-80	0-0	0.10-0.25	0.20-6.00	0.35-0.45		25-99	.02	.02	3	8	0
Cathro	0.00			 0.20-6.00	0.25.0.45	 	 60-85			 2	 8	 0
Cathro	0-28 28-49	1	1	0.20-8.00	0.35-0.45		0.0-0.5	.02	.02 .28	4 	8	0
	49-60	1	1	0.20-2.00	0.11-0.22		0.0-0.5	.28	.28	 	 	
	15 00	10 30		0.20 2.00		0.0 2.5		.20	.20	i		i
Markey	0-32	0-0	0.15-0.45	0.20-6.00	0.35-0.45		55-85	.02	.02	2	8	0
_	32-60	0-10	1.40-1.65	6.00-20	0.03-0.10	0.0-2.9	0.0-0.5	.10	.15	İ	j	į
421A:												
Dora	0-12	1	1		0.35-0.45		60-85	.02	.02	2	8	0
	12-32 32-36			0.60-6.00	0.35-0.45		60-85 15-25	.02	.02 .43	 	 	
	36-42	!	!	0.20-0.80	!	!	0.0-0.5	.28	.28	l I	l I	
	42-60			0.01-0.20	•	•	0.0-0.5	.28	.28	 	 	i
			İ					İ		i	İ	i
Markey	0-32	0-0	0.15-0.45	0.20-6.00	0.35-0.45		55-85	.02	.02	2	8	0
	32-60	0-10	1.40-1.65	6.00-20	0.03-0.10	0.0-2.9	0.0-0.5	.10	.15			
Seelyeville	0-80	0-0	0.10-0.25	0.20-6.00	0.35-0.45		25-99	.02	.02	3	8	0
422A:		 	l I			 	 	1	l I	l I	 	
Seelyeville	0-80	0-0	0.10-0.25	0.20-6.00	0.35-0.45		25-99	.02	.02	3	8	0
- <u>-</u>			,					i		ĺ	 	i
Cathro	0-28	0-0	0.28-0.45	0.20-6.00	0.35-0.45	i	60-85	.02	.02	2	8	0
	28-49	1	1	0.20-2.00	1		0.0-0.5	.28	.28			
	49-60	10-30	1.50-1.70	0.20-2.00	0.11-0.22	0.0-2.9	0.0-0.5	.28	.28			
_ ,							0					
Rondeau	0-44 44-60	,		0.20-6.00	,		25-99	.02	.02 	2	8	0
										1	1	

Table 23.--Physical Properties of the Soils--Continued

Map symbol	 Depth	 Clay	 Moist	 Permea-	 Available		Organic	Erosi	on fact	cors	erodi-	Wind erodi-
and soil name	 	 	bulk density	bility 	water capacity	extensi- bility	matter	Kw	 Kf	 T	bility group	-
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	i		<u> </u>		i i
		İ	İ	İ	į .	İ	İ	i	İ	İ	i	İ
426B:	İ	İ	İ	İ	İ	İ	İ	į	İ	İ	į	j
Emmert	0-1	1-10	1.55-1.65	6.00-20	0.10-0.12	0.0-2.9	0.5-1.0	1.10	.10	1	2	134
	1-5	1-10	1.55-1.80	20-60	0.02-0.08	0.0-2.9	0.0-0.5	.10	.15			
	5-24	1	1.55-1.80		0.02-0.08	0.0-2.9	0.0-0.0	.10	.15			
	24-60	1-3	1.60-1.80	20-60	0.01-0.03	0.0-2.9	0.0-0.0	.10	.15			
Mahtomedi	0-5 5-8		1.40-1.60		0.09-0.11		0.5-1.0	.10	.10	5	2	134
			1.40-1.50 1.45-1.75		0.02-0.07		0.0-0.5	1.10	.10 .10			
	8-15	1	1.45-1.75		0.02-0.07		0.0-0.5	.05	!			
	15-30 30-60	1	1.45-1.75		0.02-0.07		0.0-0.5	.05	.10 .10	l I	 	l I
	30-00 	0-10	1.45-1.75	0.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.05	.10 	l I	 	
Menahga	0-1	0-0	0.15-0.30	6.00-20	0.55-0.65		65-85	.02	.02	5	2	134
5	1-2	2-10	1.30-1.55	6.00-20	0.09-0.11	0.0-2.9	0.5-2.0	.10	.10	i	i	İ
	2-25		1.25-1.60		0.05-0.10	0.0-2.9	0.0-0.5	.10	.15	İ	i	İ
	25-80	0-10	1.50-1.65	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.10	.15	į	į	İ
							[
426C:												
Emmert	0-1		1.55-1.65	'	0.10-0.12		0.5-1.0	.10	.10	1	2	134
	1-5		1.55-1.80		0.02-0.08		0.0-0.5	.10	.15	!		ļ
	5-24		1.55-1.80	'	0.02-0.08		0.0-0.0	.10	.15	!		ļ
	24-60	1-3	1.60-1.80	20-60	0.01-0.03	0.0-2.9	0.0-0.0	.10	.15			
Mahtomedi	 0-5	2_15	 1.40-1.60	 6 00-20	0.09-0.11	0 0-2 9	0.5-1.0	1.10	 .10	 5	 2	134
Mancomedi	0-3 5-8		1.40-1.50	'	0.02-0.11		0.0-0.5	1.10	1 .10]	2	1 134
	8-15		1.45-1.75		0.02-0.07		0.0-0.5	.05	1.10	İ	 	i İ
	15-30		1.45-1.75	'	0.02-0.07		0.0-0.5	.05	1.10	 	! 	i i
	30-60		1.45-1.75		0.02-0.07		0.0-0.5	.05	1.10	İ	<u> </u>	
	İ	İ	İ	İ	İ		į	i	İ	į	į	İ
Menahga	0-1	0-0	0.15-0.30	6.00-20	0.55-0.65		65-85	.02	.02	5	2	134
	1-2	2-10	1.30-1.55	6.00-20	0.09-0.11	0.0-2.9	0.5-2.0	.10	.10			
	2-25	0-15	1.25-1.60	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.10	.15			
	25-80	0-10	1.50-1.65	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.10	.15			
426D:												1 124
Emmert	0-1		1.55-1.65		0.10-0.12		0.5-1.0	.10	.10	1	2	134
	1-5		1.55-1.80		0.02-0.08		0.0-0.5	1.10	.15			
	5-24 24-60		1.55-1.80 1.60-1.80		0.02-0.08		0.0-0.0	1.10	.15 .15	l I		
	24-00	1-3	1.00-1.80	20-00		0.0-2.9	0.0-0.0	.10	.13	l I	 	
Mahtomedi	0-5	2-15	1.40-1.60	6.00-20	0.09-0.11	0.0-2.9	0.5-1.0	.10	.10	5	2	134
	5-8		1.40-1.50		0.02-0.07		0.0-0.5	.10	.10	i	i	İ
	8-15	0-10	1.45-1.75	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.05	.10	İ	i	İ
	15-30	0-10	1.45-1.75	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.05	.10	İ	į	İ
	30-60	0-10	1.45-1.75	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.05	.10	İ	į	j
Menahga	0-1		0.15-0.30		0.55-0.65		65-85	.02		5	2	134
	1-2		1.30-1.55		0.09-0.11		0.5-2.0	.10	.10	!		ļ
	2-25		1.25-1.60		0.05-0.10			.10	!			
	25-80	0-10	1.50-1.65	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.10	.15	 		
430A:	 	l I	 	I I	 	 	[[I I	l I	 	I I
Freya	 0-11	1 1-10	 1.55-1.65	6.00-20	0.10-0.12	0.0-2 9	1.0-2.0	.05	.05	 4	 2	134
	11-32		1.55-1.70		0.06-0.11			.15	!	, *	<u> </u>	131
	32-47		1.55-1.70	•	0.05-0.10	•				i	i	i
	47-66			0.0015-0.06	!			.28	.28	i	i	i
	66-72			0.0015-0.06	1				.28	i	i	i
	72-80	1		0.0015-0.06	1		0.0-0.5	.28	.28	İ	į	İ
	i	i		İ	i	i	i	i	i	i	i	į

Table 23.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	 Clay 	 Moist bulk	Permea- bility	Available water	Linear	Organic matter		on fac	——		Wind erodi- bility
and soll name		 	density	DITICY	capacity	bility	maccer	Kw	Kf	T	group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	i -	<u> </u>	i –		i i
i		į	İ	İ	İ	į	į	į	į	į	į	j
439B:												
Graycalm	0-3		1.30-1.55		0.09-0.11		0.5-2.0	1.10	.10	5	2	134
	3-22 22-35		1.25-1.60 1.50-1.65		0.05-0.10		0.0-0.5	1.10	.15 .15		 	l I
	35-60		1.50-1.65		0.05-0.10		0.0-0.5	.10	1.15		 	
i					İ	İ				i	i	İ
Menahga	0-1	0-0	0.15-0.30	6.00-20	0.55-0.65		65-85	.02	.02	5	2	134
	1-2	2-10	1.30-1.55	6.00-20	0.09-0.11	0.0-2.9	0.5-2.0	.10	.10			
	2-25		1.25-1.60		0.05-0.10		0.0-0.5	.10	.15			
	25-80	0-10	1.50-1.65	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.10	.15			
439C:		 	 			 			 		 	l
Graycalm	0-3	2-10	1.30-1.55	6.00-20	0.09-0.11	0.0-2.9	0.5-2.0	.10	.10	5	2	134
-	3-22	0-10	1.25-1.60	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.10	.15	i	i	İ
İ	22-35	0-10	1.50-1.65	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.10	.15	ĺ	İ	ĺ
I	35-60	0-15	1.50-1.65	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.10	.15		[
Year all and	0 1						(5.05					124
Menahga	0-1 1-2		0.15-0.30		0.55-0.65		65-85	.02	.02 .10	5	2	134
	2-25		1.25-1.60		0.05-0.11		0.0-0.5	1.10	1.15		 	l I
	25-80		1.50-1.65		0.02-0.07		0.0-0.5	1.10	.15	i		
i		į	İ		j	Ì	į	İ	į	į	į	j
439D:						1						
Graycalm	0-3		1.30-1.55		0.09-0.11		0.5-2.0	.10	.10	5	2	134
	3-22		1.25-1.60		0.05-0.10		0.0-0.5	.10	.15	ļ		ļ
	22-35		1.50-1.65		0.05-0.10		0.0-0.5	1.10	.15			
	35-60	0-15	1.50-1.65	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.10	.15		 	l I
Menahqa	0-1	0-0	0.15-0.30	 6.00-20	0.55-0.65		65-85	.02	.02	5	2	134
3	1-2		1.30-1.55		0.09-0.11		0.5-2.0	.10	.10	i	i	İ
i	2-25	0-15	1.25-1.60	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.10	.15	į	į	İ
İ	25-80	0-10	1.50-1.65	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.10	.15	ĺ	ĺ	
4405												
442C: Haugen	0-4	6_14	 1 40_1 65	0.60-2.00	0.12-0.14	0 0-2 9	1.0-3.0	.24	.24	 5	 3	 86
Haugen	0-4 4-15		1.40-1.65		0.12-0.14		0.5-1.0	.24	.24	5	3	86
	15-23			0.60-2.00	0.08-0.19		0.5-1.0	.24	.24		 	l I
	23-35			0.60-2.00	0.05-0.16		0.0-0.5	.24	.24	i		
i	35-49			0.20-0.60	0.05-0.13		0.0-0.5	.24	.24	i	i	İ
i	49-79	8-18	1.40-1.70	0.20-0.60	0.05-0.13	0.0-2.9	0.0-0.5	.24	.24	į	į	İ
İ	79-80	6-15	1.80-1.90	0.01-0.06	0.02-0.05	0.0-2.9	0.0-0.5	.24	.24	ĺ	ĺ	
_												
Greenwood	0-6 6-60	!	0.30-0.40	0.60-6.00	0.55-0.65		55-75 55-75	.02	.02	3	7	38
	0-00	0-0	0.10-0.25	0.00-0.00			33-73	.02	.02		 	l I
443D:		i			i	i		i	i	i	i	İ
Amery	0-3	4-12	1.05-1.25	0.60-2.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	5	3	86
I	3-22	4-15	1.50-1.70	0.60-2.00	0.09-0.19	0.0-2.9	0.0-0.5	.24	.24			
I	22-34			0.20-0.60	'		0.0-0.5		.24			
	34-41			0.20-0.60			0.0-0.5	.24	.24			
	41-57			0.20-0.60					.28			
	57-71 71-80			0.20-0.60	1		0.0-0.5	.20	.28 .28	 	 	
	,1-00	4-12	1.00-2.00	3.02-0.20		0.0-2.9	0.0-0.5	.20	.20			İ
Greenwood	0 - 6	0-0	0.30-0.40	6.00-20	0.55-0.65		55-75	.02	.02	3	7	38
j	6-60	0-0	0.10-0.25	0.60-6.00	0.45-0.55	i	55-75	.02	.02	İ	İ	İ
İ						[1			[
459A:												
Loxley	0-13 13-60		0.30-0.40	6.00-20 0.20-6.00	0.55-0.65		70-90 70-99	.02	.02	3	8	0

Table 23.--Physical Properties of the Soils--Continued

Map symbol	Depth	 Clay	Moist	Permea-	Available		Organic	Erosi	on fac		erodi-	Wind erodi-
and soil name		 	bulk density	bility	water capacity	extensi- bility	matter	Kw	 Kf		bility group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct					
459A:		 				 						
459A: Daisybay	0-7	 0-0	 0.05-0.20	6.00-20	0.55-0.65	 	 50-99	.02	.02	 2	 8	 0
DaibyDay	7-30	1	0.05-0.15		0.07-0.19		50-99	.02	.02	i -		
	30-35	!	0.20-0.35		0.35-0.45		25-99	.02	.02	i	i	İ
	35-80	35-50	1.35-1.55	0.06-0.20	0.16-0.18	6.0-8.9	0.0-0.5	.37	.37	į	į	į
Dawson	0 - 8	0-0	 0.15-0.30	6.00-20	0.55-0.65	 	 65-85	.02	 .02	 2	 8	 0
Dawson	8-38	1	0.15-0.30		0.35-0.65		65-85	.02	.02	<u>4</u> 	•	0
i	38-40			0.60-2.00	0.18-0.20		5.0-15	.37	.37	i		i
	40-60	!	1.55-1.75		0.03-0.07		0.0-0.5	.15	.15	İ	İ	İ
461A:						 						
Bowstring	0-38	 0-0	 0.10-0.35	0.20-6.00	0.35-0.45	 	70-90	.02	.02	 3	 8	 0
J	38-47	0-10	1.40-1.65	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.10	.15	İ	i	İ
	47-80	0-0	0.10-0.35	0.20-6.00	0.35-0.45		70-90	.02	.02	į	į	į
465A:		 	 			 	 		 	 	 	
Newson	0-3	0-0	 0.10-0.35	6.00-20	0.35-0.55	 	30-80	.02	.02	 5	8	0
	3-8	1	1.35-1.65		0.07-0.12		10-20	.10	.10	-	i -	İ
	8-16	1-4	1.70-1.80	6.00-20	0.06-0.11	0.0-2.9	0.1-2.0	.15	.17	j	į	j
	16-22	1-4	1.70-1.80	6.00-20	0.06-0.11	0.0-2.9	0.1-2.0	.15	.17			
	22-60	1-4	1.70-1.80	6.00-20	0.05-0.15	0.0-2.9	0.0-0.5	.15	.15			
Meehan	0-4	 1-5	 1.35-1.65	6.00-20	0.06-0.08	0.0-2.9	0.5-3.0	.02	.02	 5	 1	220
İ	4-29	1-4	1.60-1.70	6.00-20	0.02-0.10	0.0-2.9	0.0-0.5	.15	.15	İ	i	İ
	29-60	1-4	1.60-1.70	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.15	.15	į	į	į
469E:		 	 			 	 		 	 		
Bigisland	0-3	1-10	 1.55-1.65	2.00-20	0.05-0.12	0.0-2.9	1.0-2.0	.05	.10	1	2	134
	3-13	1-10	1.55-1.70	2.00-20	0.03-0.12	0.0-2.9	0.5-1.0	.05	.17	İ	i	İ
j	13-25	1-10	1.55-1.70	2.00-20	0.04-0.11	0.0-2.9	0.5-1.0	.15	.15	ĺ	İ	Ì
	25-47	1-10	1.55-1.70	2.00-20	0.02-0.10	0.0-2.9	0.5-1.0	.15	.15			
	47-56	!	1.55-1.70		0.04-0.10		0.5-1.0	.15	.15	ļ		
	56-80	5-35	1.80-2.00 	0.06-0.20	0.01-0.05	0.0-2.9	0.0-0.5	.24	.24	 	 	
Milaca	0 - 4	5-15	1.35-1.55	0.60-2.00	0.12-0.14	0.0-2.9	1.0-4.0	.24	.24	4	3	86
	4-13	5-12	1.40-1.60	0.60-2.00	0.12-0.22	0.0-2.9	0.5-2.0	.37	.37			
	13-17		1.40-1.60		0.11-0.19		0.0-0.5	.24	1			
	17-43 43-80		1.50-1.70 1.80-2.00		0.11-0.19		0.0-0.5	.24	.24			
	43-00	3-16	1.80-2.00	0.01-0.06	0.00-0.04	0.0-2.9	0.0-0.5	.24	.24	 		
471B:		į	į į		į		į	į	į	į	į	į
Dairyland	0-1		0.15-0.30		0.45-0.55		60-85	.02	.02	1	3	56
	1-7 7-14	1	1.55-1.65 1.55-1.70		0.07-0.11			.02				
	14-36		1.55-1.70 1.55-1.70		0.04-0.09			1.15	.15 .15	l I	 	l I
	36-49		1.55-1.70		0.04-0.07			1.10	1.15		 	l I
	49-80			0.01-0.06	0.01-0.05			.24	.24		İ	
T	0 1			6 00 00								
Emmert	0-1 1-5		1.50-1.60 1.55-1.80		0.08-0.13			1.15	.17 .15	1	3	56
	5-24	1	1.55-1.80		0.02-0.08			1.10	1.15		 	l I
	24-60		1.60-1.80		0.01-0.03		0.0-0.0	.10	.15		İ	
4710												
471C: Dairyland	0-1	 0-0	 0.15-0.30	2 00-20	0.45-0.55	 	 60-85	.02	 .02	 1	 2	 86
Dairyrand	1-7		0.15-0.30 1.55-1.65		0.45-0.55			.02		1	-	00
	7-14		1.55-1.70		0.04-0.09			.15		i		
	14-36		1.55-1.70		0.04-0.07	•		.10	.15	i	į	İ
	36-49		1.55-1.70		'	0.0-2.9		.10	.15	I	I	I
	30-49	2-13	11.55-1.70	0.00-20	0.04-0.07	0.0 2.5	0.0-0.0	1 . 10		1		1

Table 23.--Physical Properties of the Soils--Continued

Map symbol	Depth	 Clay	Moist	Permea-	Available	 Linear extensi-	Organic	Erosi	on fac	tors		Wind erodi-
and soil name		 	bulk density	bility	water capacity	extensi-	matter	Kw	 Kf	 T	bility group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	ICW	102	1	group	Index
			9,00		,			İ	İ	i	<u> </u>	İ
471C:		ĺ			İ		ĺ	ĺ	ĺ	ĺ	ĺ	
Emmert	0-1	1	1.55-1.65		0.10-0.12		0.5-1.0	.10	.10	1	2	86
	1-5		1.55-1.80		0.02-0.08		0.0-0.5	.10	.15	ļ		
	5-24 24-60		1.55-1.80 1.60-1.80	20-60 20-60	0.02-0.08		0.0-0.0	10	.15 .15	 	 	
472A:						 	 					İ
Rockmarsh	0-1	0-0	 0.15-0.30	0.60-20	0.45-0.55	 	65-85	.02	.02	1	 5	48
i	1-8		1.45-1.55		0.11-0.24	0.0-2.9	1.0-2.0	.15	.37	İ	i	İ
İ	8-23	2-10	1.60-1.70	0.60-20	0.04-0.11	0.0-2.9	0.2-0.8	.10	.17	ĺ	į	İ
	23-46	10-35	1.45-1.55	0.60-20	0.07-0.17	0.0-2.9	0.0-0.0	.17	.24			
	46-80	5-20	1.80-1.85	0.01-0.06	0.02-0.10	0.0-2.9	0.0-0.0	.17	.24			
Clemens	0-2	0-0	 0.35-0.45	0.60-2.00	0.55-0.65	 	30-80	.02	.02	3	8	0
I	2-7	10-25	1.45-1.55	0.60-2.00	0.10-0.12	0.0-2.9	0.5-1.0	.20	.32			
I	7-10				0.06-0.17		0.5-1.0	.17	.17			
	10-13				0.06-0.19		0.5-1.0	.17	.17			
	13-32	1		0.60-2.00	0.06-0.13		0.5-1.0	.24	.24	ļ		ļ
	32-46				0.05-0.11		0.5-1.0	.24	.24			
	46-80	1-10	1.55-1.70 	6.00-60	0.04-0.09	0.0-2.9	0.0-0.5	.15	.15 	 	 	
473A:		į			į	İ	į	İ	į	į	į	
Dairyland	0-1		0.15-0.30		0.45-0.55		60-85	.02	.02	1	3	56
	1-7		1.55-1.65		0.07-0.11		1.0-2.0	.02	.10			
	7-14 14-36		1.55-1.70 1.55-1.70		0.04-0.09		0.2-0.8	1.15	.15 .15			
	36-49		1.55-1.70		0.04-0.07		0.0-0.0	1.10	1.15		 	
	49-80			0.01-0.06	0.01-0.05		0.0-0.0	.24	.24			
Skog	0-1	0-0	 0 15-0 40	2.00-6.00	0.35-0.45	 	30-80	.02	 .02	 3	 3	 56
brog	1-6			2.00-6.00	0.08-0.13		1.0-2.0	.15	1.17	3	3	50
	6-11			2.00-6.00	1		0.2-0.8	.10	.17	i		i
i	11-27		1.55-1.70		0.04-0.09		0.0-0.5	.10	.15	i	i	İ
i	27-38		1.60-1.80		0.01-0.09	0.0-2.9	0.0-0.5	.10	.15	İ	i	İ
	38-80	0-5	1.60-1.80	6.00-60	0.01-0.06	0.0-2.9	0.0-0.2	.10	.15	į	į	į
484A:			 			 			 			
Greenwood	0 - 6	0-0	0.30-0.40	6.00-20	0.55-0.65		55-75	.02	.02	3	7	38
	6-60	0-0	0.10-0.25	0.60-6.00	0.45-0.55		55-75	.02	.02			
Beseman	0-36	0-0	0.10-0.25	0.60-6.00	0.35-0.45	 	25-75	.02	.02	2	8	0
	36-60	8-20	1.35-1.60	0.20-0.60	0.09-0.22	0.0-2.9	0.5-1.0	.43	.43			
485C:						 						
Lupton	0-65	0-0	0.15-0.40	0.20-6.00	0.35-0.45		30-80	.02	.02	3	8	0
Tawas	0-31	0-0	0.15-0.40	0.20-6.00	0.35-0.45		30-80	.02	.02	2	8	0
	31-60	0-10	1.55-1.80	6.00-20	0.02-0.10	0.0-2.9	0.0-0.5	.15	.15		 	
495B:							İ					
Karlsborg		1	1.35-1.65		0.09-0.11		0.5-2.0	.10	.10	4	2	134
	9-28		1.45-1.65		0.05-0.10		0.0-0.5	.15	.15			
	28-48			0.01-0.20	0.08-0.10		0.0-0.5	.28	.28			
	48-80	1-5 	1.55-1.70 	6.00-20	0.05-0.07	0.0-2.9 	0.0-0.5	.15	.15 		 	
Grettum	0-3		1.35-1.60		0.09-0.11		1.0-3.0	.10	.10	5	2	134
I	3-32		1.40-1.65		0.05-0.10		0.0-0.5	.15	.15	ļ	[
	32-75		1.40-1.65		0.05-0.10		0.0-0.5	.15	.15	!		
	75-80	1-10	1.50-1.70	6.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15			

Table 23.--Physical Properties of the Soils--Continued

Map symbol	Depth	 Clay	Moist	Permea-	Available		Organic	Erosi	on fac	cors	erodi-	Wind erodi
and soil name		 	bulk density	bility	water capacity	extensi- bility	matter	Kw	 Kf	 T	bility group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	l	<u>. </u>	 	. <u>. </u>	
			ļ									
195B:	0-9		 1.35-1.65	6 00 20	0.09-0.11			1 10		 4	 2	 134
Perida	0-9 9-43		1.35-1.65 1.45-1.65		0.09-0.11		0.5-2.0	1.10	.10 .15	4± 	2	134
	43-45		1.45-1.65 1.45-1.65		0.05-0.10		0.0-0.5	1.15	.15	l I	 	l l
	45-60			0.01-0.06	0.08-0.10		0.0-0.5	.28	.28	! 		
	60-74			0.01-0.06	0.08-0.10		0.0-0.5	.28	.28	i	i	i
j	74-80	1-10	1.50-1.70	6.00-20	0.05-0.07		0.0-0.5	.15	.15	İ	į	į
0.5.5												
95C: Karlsborg	0-9	∣ 6-8	 1.35-1.65	6.00-20	0.09-0.11	0.0-2.9	0.5-2.0	1 .10	1 .10	 4	 2	134
	9-28		1.45-1.65		0.05-0.10		0.0-0.5	.15	.15	i -	i -	
i	28-48	60-80	1.45-1.70	0.01-0.20	0.08-0.10	6.0-8.9	0.0-0.5	.28	.28	İ	i	İ
	48-80	1-5	1.55-1.70	6.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	ĺ	į	į
 	0-3	 2_12	 1.35-1.60	6 00-20	0.09-0.11	 0.0-2.9	 1.0-3.0		 .10	 5	 2	 134
	3-32		1.40-1.65		0.05-0.10		0.0-0.5	1.15	1.15]	2	131
	32-75		1.40-1.65 1.40-1.65		0.05-0.10		0.0-0.5	.15	1.15	<u> </u>		
	75-80	'	1.50-1.70		0.05-0.07		0.0-0.5	.15	.15	İ	İ	İ
Perida	0-9		1.35-1.65		0.09-0.11		0.5-2.0	.10	.10	4	2	134
	9-43		1.45-1.65		0.05-0.10		0.0-0.5	.15	.15			
	43-45 45-60	'	1.45-1.65 1.45-1.70	0.01-0.06	0.05-0.10		0.0-0.5	.15	1.15	l I	 	l I
	60-74			0.01-0.06	0.08-0.10		0.0-0.5	.28	.28	l I	 	
	74-80		1.50-1.70		0.05-0.07		0.0-0.5	1.15	.15			
									İ		į	İ
95D: Karlsborg	0-9	6_0	 1.35-1.65	6 00-20	0.09-0.11		0.5-2.0		 .10	 4	 2	 134
Railbboig	9-28		1.45-1.65		0.05-0.10		0.0-0.5	1.15	1.15	* 	2	131
	28-48			0.01-0.20	0.08-0.10		0.0-0.5	.28	.28	İ		
j	48-80	'	1.55-1.70		0.05-0.07		0.0-0.5	.15	.15	İ	į	İ
 	0-3	2.12	 1.35-1.60	6 00 00	0.09-0.11		1.0-3.0		 .10	 5	 2	 134
Grettum	3-32		1.35-1.60 1.40-1.65		0.09-0.11		0.0-0.5	1.15	.10	ɔ	4	134
	32-75	'	1.40-1.65 1.40-1.65		0.05-0.10		0.0-0.5	.15	1.15	 	 	l I
	75-80	'	1.50-1.70		0.05-0.07		0.0-0.5	.15	.15			İ
Perida	0-9	'	1.35-1.65		0.09-0.11		0.5-2.0	.10	.10	4	2	134
	9-43 43-45		1.45-1.65 1.45-1.65		0.05-0.10		0.0-0.5	1.15	.15 .15	l I	 	l I
	45-60			0.01-0.06	0.08-0.10		0.0-0.5	.28	.28	 	 	l I
	60-74			0.01-0.06	0.08-0.10		0.0-0.5	.28	.28	İ		
j	74-80		1.50-1.70		0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	İ	į	İ
060.												
96B: Karlsborg	0-9	 6-8	 1.35-1.65	6.00-20	0.09-0.11	0.0-2.9	0.5-2.0	1 .10	1 .10	 4	 2	134
g	9-28	'	1.45-1.65		0.05-0.10		1	.15	1	i -	i -	
i	28-48	60-80	1.45-1.70	0.01-0.20	0.08-0.10	6.0-8.9	0.0-0.5	.28	.28	İ	i	İ
İ	48-80	1-5	1.55-1.70	6.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	İ	İ	İ
96C:		 					l I			 		
Karlsborg	0-9	 6-8	 1.35-1.65	6.00-20	0.09-0.11	0.0-2.9	0.5-2.0	.10	1 .10	 4	 2	134
	9-28		1.45-1.65		0.05-0.10	0.0-2.9	1	.15	1	İ	i	İ
	28-48			0.01-0.20	0.08-0.10			.28	.28	İ	į	j
į	48-80	1-5	1.55-1.70	6.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15			
96D:		 				 	 		 	 	 	
אפט: Karlsborg	0 - 9	 6-8	 1.35-1.65	6.00-20	0.09-0.11	0.0-2.9	0.5-2.0	1.10	1 .10	 4	2	134
	9-28		1.45-1.65		0.05-0.10			.15	1	İ	į	İ
i	28-48			0.01-0.20	0.08-0.10		1	.28	.28	İ	į	j

Table 23.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	 Clay	 Moist bulk	Permea- bility	Available water	 Linear extensi-	 Organic matter	Erosi	on fac	tors	Wind erodi- bility	
and soll name		 	density	DITICY	capacity	bility	Maccer	Kw	 Kf	T	group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct		112	-	 	
		İ	ĺ		į	ĺ		į		İ	į	į
497A:	0 - 9		1 25 1 65		0.09-0.11				1 10		 1	
Meenon	0-9 9-28	1	1.35-1.65		0.09-0.11		0.5-2.0	1.10	10	4	1	250
	28-41	1	1.35-1.60		0.08-0.10	1	0.0-0.5	.28	.28	 	 	
	41-80	1	1.55-1.70		0.05-0.07	1	0.0-0.5	.15	.15	İ	İ	i
521A: Dody	0-3	0-0	0 45-0 95	 2.00-6.00	0.35-0.45	 	20-50	.02	.02	 4	 8	 0
Dody	3-9	1		2.00-6.00	0.06-0.08	1	0.2-1.0	.02	.02	=	0	0
	9-20	1		2.00-6.00	0.05-0.07		0.0-0.5	.15	.15	i	<u> </u>	i
i	20-23	2-12	1.40-1.65	2.00-6.00	0.05-0.10	0.0-2.9	0.0-0.5	.15	.15	į	į	į
I	23-47	50-80	1.35-1.70	0.01-0.20	0.08-0.12	6.0-8.9	0.0-0.5	.28	.28			
	47-58	,	1.40-1.65		0.05-0.10	1	0.0-0.5	.15	.15			
	58-80	0-12	1.40-1.65	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.15	.15			
523A:			 	 		 	 	1		 	! 	
Nokasippi	0 - 6	0-0	0.28-0.45	0.20-6.00	0.35-0.45		60-85	.02	.02	4	8	0
İ	6-15	1-10	1.44-1.65	6.00-20	0.06-0.12	0.0-2.9	0.0-0.5	.17	.17	ĺ	ĺ	ĺ
	15-22	,	1.44-1.65		0.15-0.19	1	0.0-0.5	.17	.17			
	22-31	1	1.55-1.65		0.11-0.18	1	0.0-0.5	.17	.17			
	31-45 45-60		1.70-1.80		0.02-0.04	1	0.0-0.5	1.15	15			
	45-60	3-16	1.80-2.00	0.01-0.06		0.0-2.9	0.0-0.5	.1/	•1/	 	 	
529B:		İ	İ			İ		i	į	İ	İ	i
Perida	0 - 9		1.35-1.65		0.07-0.09	1	0.5-2.0	.02	.02	4	1	220
	9-43		1.45-1.65		0.06-0.08	1	0.0-0.5	.15	.15			
	43-45	,	1.45-1.65		0.06-0.08	1	0.0-0.5	1.15	.15			
	45-60 60-74	1	1.45-1.70	0.01-0.06	0.08-0.10	1	0.0-0.5	.28	.28	 	 	
	74-80	,	1.50-1.70		0.05-0.10	1	0.0-0.5	1.15	1.15	 		İ
i		į	İ	İ	j	İ	İ	i	į	İ	į	i
531A:						!		1	ļ		[!
Stengel	0-4	,	1.45-1.60		0.07-0.09	1	1.0-3.0	.10	.10	4	2	134
	4-20 20-46	1	1.50-1.70 1.50-1.70		0.07-0.09	1	0.5-2.0	1.17	17	 		
	46-50	,	1.50-1.70		0.07-0.09	1	0.5-2.0	1 .17	1.17	l I	 	
	50-76	1	1.35-1.60		0.08-0.11	1	0.0-0.5	.28	.28	i	<u> </u>	i
i	76-80	1-4	1.55-1.70	6.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	į	į	į
								-				
542B: Haugen, very stony	0-4	6 14	1.40-1.65	0.60-2.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	 5	 3	 86
haugen, very scony	4-15	1	1.40-1.70		0.12-0.14	1	0.5-1.0	.24	.24]	3	00
	15-23	1		0.60-2.00	1	1	0.5-1.0	.24	.24	i	<u> </u>	i
i	23-35			0.60-2.00			0.0-0.5	.24	.24	į	į	i
I	35-49	,		0.20-0.60	•		0.0-0.5	.24	.24			
	49-79	,		0.20-0.60	•		0.0-0.5	.24	.24			
	79-80	6-15	1.80-1.90	0.01-0.06	0.02-0.05	0.0-2.9	0.0-0.5	.24	.24	 	 	
Haugen	0 - 7	6-14	1.40-1.65	0.60-2.00	0.12-0.14	0.0-2.9	1.0-3.0	.24	.24	 5	 3	86
-	7-15	,		0.60-2.00	•		0.5-1.0	.24	.24	İ	į	į
İ	15-23			0.60-2.00	'		0.5-1.0	.24	.24			
	23-35			0.60-2.00	'		0.0-0.5		.24		[!
	35-49	,		0.20-0.60	•				.24			
	49-79 79-80	,		0.20-0.60	•		0.0-0.5	.24	.24	 	 	I
	13-80	0-12	 1.00-1.90	0.01-0.06	0.02-0.05	U.U-2.9 	0.0-0.5	•24	•24	I I	 	1

Table 23.--Physical Properties of the Soils--Continued

Map symbol	Depth	 Clay	Moist	Permea-	Available water		Organic	Erosi	on fac	tors	erodi-	Wind erodi-
and soil name		 	bulk density	bility	water capacity	extensi- bility	matter	Kw	 Kf	 T	bility group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	i i		İ		İ
		[ļ			!	
542C:	0.4		 1.40-1.65	0.60-2.00	0.12-0.14		1 0 2 0	24			 3	 86
Haugen, very stony	0-4 4-15		1.40-1.65 1.40-1.70		0.12-0.14		1.0-3.0	.24	.24	5	3 	86
	15-23		11.40-1.70		0.08-0.19		0.5-1.0	.24	.24	l I	 	
	23-35	1		0.60-2.00	0.05-0.16		0.0-0.5	.24	.24	İ	 	
	35-49	6-16	1.40-1.70	0.20-0.60	0.05-0.13		0.0-0.5	.24	.24	İ	İ	İ
	49-79	8-18	1.40-1.70	0.20-0.60	0.05-0.13	0.0-2.9	0.0-0.5	.24	.24	İ	j	İ
	79-80	6-15	1.80-1.90	0.01-0.06	0.02-0.05	0.0-2.9	0.0-0.5	.24	.24			
_												
Haugen	0-7			0.60-2.00 0.60-2.00	0.12-0.14		1.0-3.0	.24	.24	5	3	86
	7-15 15-23		1.40-1.70 1.40-1.70		0.08-0.19		0.5-1.0	.24	.24	 	l I	l I
	23-35			0.60-2.00	0.05-0.16		0.0-0.5	.24		 	 	l I
	35-49			0.20-0.60	0.05-0.13		0.0-0.5	.24	.24	İ	 	
	49-79			0.20-0.60	0.05-0.13		0.0-0.5	.24		İ	İ	İ
	79-80	6-15	1.80-1.90	0.01-0.06	0.02-0.05	0.0-2.9	0.0-0.5	.24	.24	İ	İ	į
					İ			!				
544F:							(5.05					124
Menahga	0-1 1-2		0.15-0.30 1.40-1.65		0.55-0.65		65-85	.02	.02	5	2	134
	2-25		1.25-1.60		0.05-0.10		0.0-0.5	1.10	1.15	 	 	l I
	25-80		1.50-1.65		0.02-0.07		0.0-0.5	.10	.15	İ	 	
										İ	İ	İ
Mahtomedi	0-5	2-15	1.40-1.60	6.00-20	0.09-0.11	0.0-2.9	0.5-1.0	.10	.10	5	2	134
	5-8		1.40-1.50		0.02-0.07	0.0-2.9	0.0-0.5	.10	.10			
	8-15		1.45-1.75		0.02-0.07		0.0-0.5	.05	.10			
	15-30		1.45-1.75		0.02-0.07		0.0-0.5	.05	.10			
	30-60	0-10	1.45-1.75	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.05	.10	 	 	l I
553B:			 			 			 	i I	 	
Branstad	0 - 9	9-17	1.50-1.60	0.60-2.00	0.13-0.18	0.0-2.9	1.0-2.0	.24	.24	5	3	86
	9-14	11-23	1.55-1.65	0.60-2.00	0.10-0.19	0.0-2.9	0.0-0.5	.28	.28	ĺ	ĺ	
	14-20			0.60-2.00	0.10-0.19		0.0-0.5	.28	.28			
	20-45			0.60-2.00	0.10-0.19		0.0-0.5	.10	.10			
	45-55			0.60-2.00	0.12-0.19		0.0-0.5	.10	.10			
	55-68 68-80		1.55-1.70 1.55-1.80	0.60-2.00	0.12-0.19		0.0-0.5	.32	.32 .32	 	l I	l I
	00-00	13-23	1.55-1.66	0.20-2.00		0.0-2.5	0.0-0.5	.52	.52	 	 	
553C:			į i		i			i	İ	İ	İ	İ
Branstad	0 - 9	9-17	1.50-1.60	0.60-2.00	0.13-0.18	0.0-2.9	1.0-2.0	.24	.24	5	3	86
	9-14		1.55-1.65		0.10-0.19		0.0-0.5	.28	.28			
	14-20		1.55-1.65		0.10-0.19		0.0-0.5	.28	.28	ļ		ļ
	20-45			0.60-2.00	0.10-0.19		0.0-0.5	.10	.10			
	45-55 55-68			0.60-2.00 0.60-2.00	'				'	 	 	l I
	68-80			0.20-2.00					.32	 	 	
										İ	İ	İ
553D:		ĺ	į į		İ		İ	İ	ĺ	ĺ	ĺ	
Branstad	0-9			0.60-2.00					.24	5	3	86
	9-14			0.60-2.00	1		1	1	'	ļ		
	14-20			0.60-2.00	'				'			
	20-45 45-55			0.60-2.00 0.60-2.00	'				'	I I	l I	I I
	55-68			0.60-2.00					.32	 	 	l I
	68-80			0.20-2.00	1		1	1	.32	i		İ
		į	į i		j		İ	į	İ	İ	İ	į
555A:		[ļ İ					[
Fordum	0 - 6			0.60-2.00	'				.32	4	5	56
	6-18			0.60-6.00	'				.37			
				0.60-6.00	'				.37	l I	 	I I
	30-60	∠-5	1.55-1.70	0.00-20	0.04-0.10	0.0-2.9	0.5-1.0	.15	.15	1	I	I .

Table 23.--Physical Properties of the Soils--Continued

Map symbol	Depth	 Clay	 Moist	 Permea-	 Available		Organic	Erosi	on fac	cors	erodi-	Wind erodi-
and soil name			bulk density	bility	water capacity	extensi- bility	matter	Kw	 Kf	 T	bility group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct			-		
į		į	į		į	į	ļ	į	į	į	į	į
557B: Shawano	0-2	1 2	 1.00-1.35	6 00 20	0.07-0.09	0.0-2.9	0.5-1.0	.05	 .05	 5	 1	220
Silawalio	2-4	1	1.45-1.70		0.07-0.09		0.0-0.5	.05	.05	5	1	220
i	4-26	1	1.45-1.70		0.07-0.09		0.0-0.5	.05	.05		 	l I
İ	26-60	1	1.50-1.70		0.05-0.08		0.0-0.5	.05	.05	İ	İ	
557C:				 		 	 					
Shawano	0-2	1-3	1.00-1.35	 6.00-20	0.07-0.09	0.0-2.9	0.5-1.0	.05	.05	5	 1	220
į	2-4	1-3	1.45-1.70	6.00-20	0.07-0.09	0.0-2.9	0.0-0.5	.05	.05	ĺ	į	İ
I	4-26	1-3	1.45-1.70	6.00-20	0.07-0.09	0.0-2.9	0.0-0.5	.05	.05			
	26-60	1-3	1.50-1.70	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.05	.05			
557D:		 	 	 		 	 		 			
Shawano	0-2	1-3	1.00-1.35	6.00-20	0.07-0.09	0.0-2.9	0.5-1.0	.05	.05	5	1	220
İ	2-4	1-3	1.45-1.70	6.00-20	0.07-0.09	0.0-2.9	0.0-0.5	.05	.05	ĺ	İ	ĺ
I	4-26	1-3	1.45-1.70	6.00-20	0.07-0.09	0.0-2.9	0.0-0.5	.05	.05			
	26-60	1-3	1.50-1.70	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.05	.05			
586A:				 		 			 			
Chelmo	0 - 9	3-8	1.35-1.65	0.60-2.00	0.15-0.17	0.0-2.9	2.0-3.0	.28	.28	5	6	48
I	9-24	50-80	1.35-1.70	0.01-0.20	0.08-0.12	6.0-8.9	0.0-0.5	.24	.24			
ļ	24-34	1	1.40-1.65		0.05-0.10		0.0-0.5	.15	.15			
	34-80	0-12	1.40-1.65	6.00-20	0.05-0.10	0.0-2.9	0.0-0.5	.15	.15	l I		
600A:												
Haplosaprists										2	8	0
Psammaquents			 	 		 	 		 	2	 8	0
4155												
615B: Cress	0-3		1 25 1 60	0.60-2.00	0.12-0.14		0.5-2.0	.24	 .24	 3	 3	 86
Cless	3-15	1		0.60-2.00	0.12-0.14		0.5-2.0	.24	.24	3	3	00
i	15-31	1	1.50-1.80		0.02-0.10		0.0-0.5	1.17	1.17		 	l I
i	31-36	1	1.50-1.80		0.02-0.10		0.0-0.5	.17	.17	i		
į	36-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15	į	į	į
615C:			 	 		 	 		 		 	
Cress	0-3	5-18	1.25-1.60	 0.60-2.00	0.12-0.14	0.0-2.9	0.5-2.0	.24	.24	 3	 3	86
	3-15				0.12-0.17		0.5-1.0	.24	.24	i		
į	15-31	0-8	1.50-1.80	6.00-20	0.02-0.10	0.0-2.9	0.0-0.5	.17	.17	İ	į	İ
İ	31-36	0-8	1.50-1.80	6.00-20	0.02-0.10	0.0-2.9	0.0-0.5	.17	.17	ĺ	İ	
	36-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
615D:			 	 		 	 		 	 	 	
Cress	0-3	5-18	1.25-1.60	0.60-2.00	0.12-0.14	0.0-2.9	0.5-2.0	.24	.24	3	3	86
İ	3-15	5-18	1.40-1.70	0.60-2.00	0.12-0.17	0.0-2.9	0.5-1.0	.24	.24	ĺ	İ	
I	15-31	,	1.50-1.80		0.02-0.10				.17			
	31-36 36-60	,	1.50-1.80 1.55-1.80		0.02-0.10	1	0.0-0.5	.17	.17 .15			
	30-00	1-0		0.00-20		0.0-2.9		.10	.13			
620C:												
Lundeen	0-3			0.60-2.00			1.0-3.0	.28	.28	2	5	56
ļ	3-16 16-33	1		0.60-2.00	1	1	0.5-1.0		 	l I	I I	I I
	33-80	0-0					0.0-0.0					
	0.1											
Haustrup	0-4 4-16	,		0.60-2.00				.28	.28	1	5	56
	4-16 16-80	0-0		0.60-2.00	0.22-0.24	0.0-3.0	0.0-0.0		 		 	
;		į	i	i İ	i	İ	i	İ	į	İ	i	İ
Rock outcrop	0-60	0-0	i	0.0000-20	i	i	0.0-0.0	i	i	i -	8	i o

Table 23.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	 Clay	 Moist bulk	Permea- bility	 Available water	 Linear extensi-	 Organic matter	Erosi	on fac	ors	Wind erodi- bility	1
and soil name		 	bulk density	DILLEY	water capacity	extensi- bility	marter	 Kw	 Kf	 T	group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct			<u> </u>		
							[!			
21A: Bjorkland	0-2	 0-0	 0.10-0.30	6 00 20	0.55-0.65	 	 65-90	.02	.02	 4	 8	 0
Bjorkland	2-8	1	0.10-0.30 0.15-0.40		0.35-0.65	1	30-80	.02	.02	1 2 	8	0
	8-14	1	1.55-1.70		0.06-0.11		0.0-0.5	.05	.05		 	
	14-25		1.55-1.70		0.06-0.11		0.0-0.5	.05	.05		 	i
	25-34	1	1.55-1.70		0.06-0.11	1	0.0-0.5	.28	.28	i	<u> </u>	i
i	34-38	!	1.25-1.50		0.08-0.12		0.0-0.5	.28	.28	i	i	i
	38-80	50-80	1.25-1.50	0.01-0.20	0.08-0.12	6.0-8.9	0.0-0.5	.28	.28		į	į
3A:		 	 			 	 	 	 	 	 	
apitola	0-5	0-0	0.15-0.35	2.00-6.00	0.35-0.45		50-80	.02	.02	4	8	0
İ	5-7	12-16	1.25-1.45	0.60-2.00	0.16-0.24	0.0-2.9	3.0-10	.37	.37		İ	İ
I	7-22	8-17	1.35-1.60	0.60-2.00	0.09-0.22	0.0-2.9	0.5-1.0	.43	.43			
I	22-33	8-16	1.40-1.90		0.07-0.16	0.0-2.9	0.0-0.5	.28	.28			
	33-60	5-10	1.70-1.90	0.01-0.06	0.03-0.07	0.0-2.9	0.0-0.5	.28	.28			
4A:		 	 		 	 	 		 	 		
ssmer	0 - 4	8-15	1.35-1.55	0.60-2.00	0.20-0.24	0.0-2.9	2.0-3.0	.37	.37	4	5	56
İ	4-6	5-14	1.40-1.60	0.60-2.00	0.20-0.22	0.0-2.9	0.0-1.0	.37	.37			
I	6-11	6-16	1.40-1.65	0.60-2.00	0.20-0.22	0.0-2.9	0.0-0.5	.37	.37			
I	11-26	7-17	1.40-1.65	0.60-2.00	0.20-0.22	0.0-2.9	0.0-0.5	.37	.37			
	26-34		1.40-1.70		0.06-0.19		0.0-0.5	.32	.32			
	34-38	!		0.60-2.00	1		0.0-0.5	.32	.32			!
	38-60	0-5 	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	1.10	1.15	 	 	
1A:			 									
iese	0-1	0 - 0	0.15-0.35	2.00-6.00	0.35-0.45		50-80	.02	.02	4	8	0
I	1-6	!	1.25-1.45		0.20-0.22		3.0-10	.32	.32			
	6-11		1.35-1.60		0.11-0.22		0.5-1.0	.43	.43			!
	11-24		1.35-1.60		0.11-0.22		0.5-1.0	.43	.43			!
	24-30	!			0.11-0.22		0.5-1.0	.43	.43			!
	30-36 36-70	!	1.40-1.90 1.40-1.90		0.07-0.16		0.0-0.5	.28	.28 .28	l		
	70-80	!	1.40-1.90 1.80-2.00		0.07-0.16		0.0-0.5	.28	.28	 	 	
j		İ	į į		į	İ	İ	İ	İ	ĺ	į	İ
2A:	0.10			0.60-2.00							 3	 86
Aftad	0-10 10-29		1.35-1.65 1.45-1.70		0.14-0.18		1.0-3.0	.28	.28 .43	5	3	86
	29-36	!	1.45-1.70 1.50-1.70		0.10-0.19		0.0-0.5	.43	.43	l I	 	
	36-41		1.50-1.70		0.10-0.19	1	0.0-0.5	.43	.43		 	i
	41-60			0.20-0.60	0.11-0.22		0.0-0.5	.24	.24			
							ļ					
2B: .ftad	0-10	 3-8	 1 35-1 65	0.60-2.00	0 14-0 18	 0 0-2 9	1.0-3.0	.28	.28	 5	 3	 86
	10-29			0.60-2.00	1		0.5-1.0	.43	.43]	3	00
	29-36	1		0.60-2.00	1	1		.43	.43	i	 	i
	36-41			0.60-2.00	,			.43	.43	i	i	i
į	41-60	5-12	1.50-1.70	0.20-0.60	0.11-0.22	0.0-2.9	0.0-0.5	.24	.24	ĺ	į	İ
2C:		 				l I						
aftad	0-10	 3-8	 1.35-1.65	0.60-2.00	0.14-0.18	0.0-2.9	1.0-3.0	.28	.28	 5	 3	 86
	10-29			0.60-2.00	,			.43	.43	İ		
	29-36			0.60-2.00	,		0.0-0.5	.43	.43	i	į	i
	36-41	1		0.60-2.00	1	1		.43	.43	ĺ	į	į
į	41-60	5-12	1.50-1.70	0.20-0.60	0.11-0.22	0.0-2.9	0.0-0.5	.24	.24		į	į
4C:		 	 			 	 		 	 	 	
rylanding	0-4	5-25	 1.45-1.65	0.60-2.00	0.12-0.18	0.0-2.9	1.0-2.0	.32	.37	2	 7	38
	4-12			0.60-2.00			0.0-0.5			_		
	12-80						0.0-0.0			i	i	i
		:	: :		1	1	1	1	:		:	1

Table 23.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	 Clay	 Moist bulk	Permea- bility	 Available water	 Linear extensi-	 Organic matter	Erosi	on fac	cors	Wind erodi- bility	
and soil name			density	DITTLY	capacity	bility	Matter	Kw	 Kf	 T	group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct					
634C:			l I		1	l I	l I				 	
Beartree	0-1	0-0	0.15-0.40	0.20-6.00	0.35-0.45	 	80-90	.02	.02	 2	 7	38
	1-4	1	1.50-1.60		0.15-0.21		3.0-7.0			i -		i
i	4-16	10-25	1.60-1.80	0.60-2.00	0.10-0.14	0.0-1.5	1.0-3.0	j		İ	į	İ
	16-80									İ		
Rock outcrop.		 	 			 	 	 	 	 	 	
635C:		İ	İ		İ			İ		İ		İ
Drylanding	0 - 4	1	1	0.60-2.00	1		1.0-2.0	.32	.37	2	7	38
	4-12	1	1.55-1.75		0.08-0.12		0.0-0.5			ļ		!
	12-80		 			 	0.0-0.0		 	 	 	
Beartree	0-1	1	1		0.35-0.45		80-90	.02	.02	2	7	38
	1-4	1	1		0.15-0.21		3.0-7.0			ļ		!
	4-16 16-80	10-25	1.60-1.80	0.60-2.00	0.10-0.14	0.0-1.5	1.0-3.0			 	 	
Rock outcrop.		 	 			 -	i I		 	 	 	
		İ	İ		İ			İ		İ	İ	İ
648B: Sconsin	0-4	0.14	1 25 1 55	0.60-2.00	10 20 0 24		2.0-3.0		 .37	 4	 5	 56
Sconsin	4-5	1	1		0.20-0.24		0.5-1.0	37	37	4± 	5	56
	5-10	1	1		0.20-0.22		0.5-1.0	37	37	 	 	1
	10-18				0.20-0.22		0.5-1.0	.37	.37	 	 	i
	18-27	1	1		0.20-0.22		0.5-1.0	.37	.37	i	İ	i
i	27-34	7-17	1.50-1.70	0.60-2.00	0.05-0.19	0.0-2.9	0.0-0.5	.32	.32	İ	İ	i
	34-38			0.01-0.20	0.05-0.19		0.0-0.5	.24	.24	į	į	į
	38-60	1-6 	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15	 	 	
669D:		İ	İ				İ	İ		İ	İ	İ
Fremstadt, stony	0 - 5			2.00-6.00			1.0-2.0	.10	.10	5	2	134
	5-33		1.45-1.80		0.08-0.11		0.6-1.0	.15	.17	ļ		!
	33-37		1.50-1.80		0.05-0.11		0.0-0.5	.15	.17			
	37-45 45-70		1.50-1.80 1.50-1.70		0.05-0.11		0.0-0.5	1.15	.17 .17		 	
	70-80			2.00-20	0.04-0.10		0.0-0.5	1.15	1 .17			
_												
Pomroy	0-3		1.55-1.65		0.09-0.12		0.5-1.0	.10	.10	4	2	134
	3-30 30-45	,	1.55-1.70	0.60-2.00	0.05-0.11		0.0-0.5	.15	.15 .17		 	
	45-80			0.60-2.00	0.08-0.13		0.0-0.5	.24	1 .17			
C71D.												
671B: Spoonerhill, stony	0-3	2-15	 1 35-1 70	2.00-6.00	0 12-0 14	 0 0-2 9	1.0-2.0	.24	.24	 5	 8	 0
speciality, seen,	3-12	,		2.00-6.00	,		0.5-1.0	.17	.24]		
	12-16	,		2.00-6.00	,		0.0-0.5	.17	1	i	İ	i
i	16-34	2-10	1.55-1.80	2.00-6.00	0.03-0.10	0.0-2.9	0.0-0.5	.17	.24	İ	İ	i
İ	34-46	2-10	1.80-1.85	0.20-0.60	0.03-0.10	0.0-2.9	0.0-0.5	.17	.17	ĺ	ĺ	ĺ
	46-80	2-10	1.80-1.85	0.20-0.60	0.03-0.10	0.0-2.9	0.0-0.5	.17	.17			
Spoonerhill	0-3	2-15	 1.35-1.70	2.00-6.00	0.12-0.14	0.0-2.9	1.0-2.0	.20	.20	 5	 8	0
I	3-12	2-15	1.45-1.80	2.00-6.00	0.06-0.14	0.0-2.9	0.5-1.0	.17	.24			
I	12-16	,		2.00-6.00	,			.17	.24			
	16-34	1	1	2.00-6.00	1		0.0-0.5	.17	.24			
	34-46 46-80	,		0.20-0.60 0.20-0.60	,		0.0-0.5	.17	.17 .17		 	
	±0-00	2-10	12.00-1.85	0.20-0.60	0.03-0.10	0.0-2.9	0.0-0.5	••/	••/		 	
706A:		į	į		į		į	į	į	į	į	į
Winterfield	0 - 7		0.90-1.50		0.17-0.19		2.0-4.0	.37	.37	5	3	86
	7-60	0-10	1.55-1.65	6.00-20	0.04-0.10	0.0-2.9	0.0-0.5	.10	.17	1	I	

Table 23.--Physical Properties of the Soils--Continued

Map symbol	Depth	 Clay	 Moist	Permea-	Available	1	Organic	Erosi	on fac	tors	erodi-	Wind erodi-
and soil name		 	bulk density	bility	water capacity	extensi- bility	matter	Kw	 Kf	 т	bility	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	1		 		
				ļ						ļ		ļ
706A: Totagatic	 0-4	 5_15	 1.30-1.55	6 00-20	0.15-0.17	 0.0-2.9	1.0-2.0	.28	.28	 5	3	86
locagacic	4-8		1.40-1.65	1	0.15-0.17	1	0.0-0.5	1.10	1.15]	3	80
	8-17		1.40-1.65	1	0.05-0.15	1	0.0-0.5	1.10	.15	i		i
	17-28	0-10	1.40-1.65	6.00-20	0.05-0.10	0.0-2.9	0.0-10	.10	.15	i	i	İ
	28-46	0-10	1.40-1.65	6.00-20	0.05-0.10	0.0-2.9	0.0-10	.10	.15	ĺ	İ	ĺ
	46-70		1.40-1.65		0.02-0.10		0.0-0.5	.10	.15		[
	70-80	0-10	1.40-1.65	6.00-20	0.02-0.10	0.0-2.9	0.0-0.5	.10	.15	!		ļ
715A:		 	 	 		 						
Mora	0-4	8-16	1.35-1.55	0.60-2.00	0.20-0.22	0.0-2.9	1.0-4.0	.37	.37	4	5	56
	4-9	5-12	1.40-1.60	0.60-2.00	0.12-0.22	0.0-2.9	0.5-2.0	.37	.37			
	9-14		1	1	0.11-0.19	1	0.0-0.5	.24	1			
	14-36		1	0.60-2.00	0.11-0.19	1	0.0-0.5	.24	1	ļ		ļ
	36-46		1.60-1.80	1	0.11-0.16	1	0.0-0.5	.24	1			
	46-80 	5-16	1.80-2.00 	0.01-0.06	0.00-0.04	0.0-2.9	0.0-0.5	.24	.24			
717B:				İ				İ		İ	İ	İ
Milaca	0-4	8-16	1.35-1.55	0.60-2.00	0.20-0.22	0.0-2.9	1.0-4.0	.37	.37	4	5	56
	4-13	1	1.40-1.60	1	0.12-0.22		0.5-2.0	.37	1			
	13-17			0.60-2.00	0.11-0.19		0.0-0.5	.24	1	ļ		ļ
	17-43		1	0.60-2.00	0.11-0.19	1	0.0-0.5	.24	1			
	43-80	5-16	1.80-2.00	0.01-0.06	0.00-0.04	0.0-2.9	0.0-0.5	.24	.24		l I	l I
717C:				İ						i		
Milaca	0-4	8-16	1.35-1.55	0.60-2.00	0.20-0.22	0.0-2.9	1.0-4.0	.37	.37	4	5	56
	4-13	5-12	1.40-1.60	0.60-2.00	0.12-0.22	0.0-2.9	0.5-2.0	.37	.37			
	13-17		1	0.60-2.00	0.11-0.19	1	0.0-0.5	.24	1			
	17-43		1.50-1.70		0.11-0.19	1	0.0-0.5	.24	.24	ļ		ļ
	43-80	5-16	1.80-2.00	0.01-0.06	0.00-0.04	0.0-2.9	0.0-0.5	.24	.24			1
720F:				İ						i		
Haustrup	0-4	8-14	1.45-1.55	0.60-2.00	0.22-0.24	0.0-3.0	1.0-3.0	.28	.28	1	5	56
	4-16	8-14	1.45-1.55	0.60-2.00	0.22-0.24	0.0-3.0	1.0-2.0					
	16-80	0-0					0.0-0.0					ļ
Lundeen	 0-3	 8-14	 1 45-1 55	0.60-2.00	0.22-0.24	0.0-3.0	1.0-3.0	.28	.28	 2	 5	56
Buildeen	3-16		1.45-1.55		0.22-0.24	1	1.0-3.0			-	3	50
	16-33		1.45-1.55		0.20-0.22		0.5-1.0			i		i
	33-80	0-0		i	i	i	0.0-0.0	i		į	į	į
Rock outcrop	0-60	0-0	 	0.0000-20		 	0.0-0.0			-	8	0
726B:				İ						i		
Sissabagama	0-10	2-12	1.35-1.60	6.00-20	0.09-0.11	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	10-31		1.40-1.65	1	0.05-0.10	0.0-2.9	0.0-0.5	.15	1			
	31-45		1.50-1.65		0.05-0.10				.17	!		
	45-80	5-15	1.50-1.65	0.20-0.60	0.05-0.20	0.0-2.9	0.0-0.5	.24	.24			
742B:	 		 	 		 		İ		i		l I
Milaca	0-4	5-15	1.35-1.55	0.60-2.00	0.12-0.14	0.0-2.9	1.0-4.0	.24	.24	4	3	86
	4-13	5-12	1.40-1.60	0.60-2.00	0.12-0.22	0.0-2.9	0.5-2.0	.37	.37	į	į	İ
	13-17			0.60-2.00					1			
	17-43			0.60-2.00			1		1			
	43-80 	5-16 	1.80-2.00 	0.01-0.06	0.00-0.04	U.U-2.9 	0.0-0.5	.24	.24	 	 	
742C:												
Milaca	0-4			0.60-2.00			1.0-4.0	.24	,	4	3	86
	4-13			0.60-2.00					1			
	13-17			0.60-2.00					1			ļ
	17-43			0.60-2.00					1			
	43-80	5-16	1.80-2.00	0.01-0.06	0.00-0.04	0.0-2.9	0.0-0.5	.24	.24	!	!	1

Table 23.--Physical Properties of the Soils--Continued

Map symbol	Depth	Clay	 Moist	Permea-	Available		 Organic	Erosi	on fac	tors	erodi-	Wind erodi-
and soil name			bulk	bility	water	extensi-	matter				bility	-
	 -	1 50-1	density	T (1	capacity	bility	l	Kw	Kf	T	group	index
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	l I	 		 	
742D:		 	 			 	İ	İ	 		 	
Milaca	0-4	5-15	1.35-1.55	0.60-2.00	0.12-0.14	0.0-2.9	1.0-4.0	.24	.24	4	3	86
	4-13			0.60-2.00	0.12-0.22		0.5-2.0	.37	.37	i		İ
	13-17	8-18	1.40-1.60	0.60-2.00	0.11-0.19	0.0-2.9	0.0-0.5	.24	.24	į	İ	į
	17-43	10-18	1.50-1.70	0.60-2.00	0.11-0.19	0.0-2.9	0.0-0.5	.24	.24			
	43-80	5-16	1.80-2.00	0.01-0.06	0.00-0.04	0.0-2.9	0.0-0.5	.24	.24			
755A:												
Moppet	0-4			0.60-2.00	0.13-0.22		2.0-3.0	.28	.28	4	3	86
	4-10 10-39			0.60-2.00	0.15-0.22		0.5-1.0	.24	.24	 	 	
	39-60		1.45-1.70 1.60-1.75		0.13-0.22		0.5-1.0	1.10	1.15	l I	 	
	39-00	2-10	1.00-1.75	0.00-20	0.03-0.03	0.0-2.9	0.5-1.0	.10	.13	 	 	
Fordum	0-6	10-23	1.35-1.45	0.60-2.00	0.17-0.24	0.0-2.9	4.0-12	.32	.32	4	8	0
i	6-18			0.60-6.00	0.10-0.22		1.0-12	.37	.37	i	İ	İ
j	18-30			0.60-6.00	0.10-0.22		1.0-12	.37	.37	İ	İ	İ
İ	30-60	2-5	1.55-1.70	6.00-20	0.04-0.10	0.0-2.9	0.5-1.0	.15	.15			
							[
771A:												
Lenroot	0-4		1.40-1.60		0.09-0.11		0.5-1.0	.10	.10	5	2	134
	4-8		1.45-1.75		0.02-0.10		0.0-0.5	.05	.10	ļ		
	8-14		1.45-1.75		0.02-0.10		0.0-0.5	.05	.10			
	14-21		1.45-1.75		0.02-0.07		0.0-0.5	.05	.10		 	
	21-80	0-5	1.45-1.75	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.05	.10	 	 	
812B:		 	 			 	İ	İ	 		 	
Mora	0-4	5-15	 1.35-1.55	0.60-2.00	0.12-0.14	0.0-2.9	1.0-4.0	.24	.24	4	3	86
	4-9			0.60-2.00	0.12-0.22		0.5-2.0	.28	.28	i		İ
İ	9-14	8-18	1.40-1.60	0.60-2.00	0.11-0.19	0.0-2.9	0.0-0.5	.24	.24	İ	İ	İ
	14-36	10-18	1.50-1.70	0.60-2.00	0.11-0.19	0.0-2.9	0.0-0.5	.24	.24	ĺ	İ	į
j	36-46	5-16	1.60-1.80	0.60-2.00	0.11-0.16	0.0-2.9	0.0-0.5	.24	.24	ĺ	ĺ	ĺ
	46-80	5-16	1.80-2.00	0.01-0.06	0.00-0.04	0.0-2.9	0.0-0.5	.24	.24			
					İ		!					
825A:										_		
Meehan	0-4		1.35-1.65		0.06-0.08		0.5-3.0	.02	.02	5	1	220
	4-29		1.60-1.70		0.02-0.10		0.0-0.5	.15	.15		 	
	29-60	1-4	1.60-1.70	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.15	.15		 	
896A:		 				 			 	 	 	
Wurtsmith	0-6	1-5	1.35-1.65	6.00-20	0.06-0.08	0.0-2.9	0.5-3.0	.02	.02	5	1	220
	6-33	0-5	1.40-1.60	6.00-20	0.06-0.08		0.0-0.5	.15	.15	ĺ	İ	İ
	92-60	0-5	1.50-1.65	6.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	į	İ	į
980A:												
Soderbeck	0-4			0.60-2.00	'		2.0-6.0		.32	1	5	48
	4-18			0.60-2.00	'		0.0-0.5					
	18-28			0.60-2.00		•					 	
	28-42 42-55	1-3	1.70-1.80 	2.00-60	0.01-0.03		0.0-0.5		 	 	 	
	55-80		 	0.06-2.00		 				l I	 	
	33-80		 	3.00-2.00		- 			- 	İ	! 	İ
1070C:							i	i		i		İ
Fremstadt	0-5	5-15	1.35-1.60	2.00-20	0.12-0.14	0.0-2.9	1.0-2.0	.20	.20	5	8	0
i	5-33	1	1.45-1.80		0.08-0.11			.15	.17	İ	İ	į
İ	33-37	5-15	1.50-1.80	2.00-20	0.05-0.11	0.0-2.9	0.0-0.5	.15	.17			
İ	37-45	2-15	1.50-1.80	2.00-20	0.05-0.11	0.0-2.9	0.0-0.5	.15	.17			
İ	45-70	2-10	1.50-1.70	2.00-20	0.04-0.10	0.0-2.9	0.0-0.5	.15	.17			
	70-80	2-10	1.50-1.70	2.00-6.00	0.04-0.10	0.0-2.9	0.0-0.5	.15	.17			

Table 23.--Physical Properties of the Soils--Continued

								Erosi	on fac	tors	Wind	Wind
Map symbol	Depth	Clay	Moist	Permea-	Available		Organic				1	erodi-
and soil name			bulk	bility	water	extensi-	matter				-	bility
			density		capacity	bility		Kw	Kf	Т	group	index
	In	Pct	g/cc	In/hr	In/in	Pct	Pct					
1070C:					!			!				!
Cress	0-3				0.12-0.14		0.5-2.0	.24		3	3	86
	3-15	1		0.60-2.00	0.12-0.17		0.5-1.0	.24	.24	ļ		!
	15-31	1	1.50-1.80		0.02-0.10		0.0-0.5	.17				
	31-36		1.50-1.80		0.02-0.10		0.0-0.5	.17	.17			
	36-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
1070D:		 				 			 			
Fremstadt	 0-5	 E1E	 1.35-1.60	2 00 20	0.12-0.14	0000	1.0-2.0	.20	.20	 5	8	 0
Fremstadt	0-5 5-33	1	1.45-1.80		0.12-0.14		0.6-1.0	1.15	.20	ɔ	8	0
	33-37		1.50-1.80		0.05-0.11		0.0-0.5	1.15	.17	 	 	
	37-45	1	1.50-1.80		0.05-0.11		0.0-0.5	1.15	.17	 	 	
	45-70		1.50-1.70		0.03-0.11		0.0-0.5	1.15	.17	 	 	
	70-80	1			0.04-0.10		0.0-0.5	1.15	1 .17	l I	 	1
	70-80 	2-10	1.30-1.70	2.00-0.00	0.04-0.10	0.0-2.9	0.0-0.5	.13	• = /	l I	 	
Cress	 0-3	 5_18	 1 25_1 60	0.60-2.00	0.12-0.14	 0 0-2 9	0.5-2.0	.24	.24	 3	3	86
Cless	0-3 3-15			0.60-2.00	0.12-0.17		0.5-1.0	.24	.24	3	3	80
	15-31		1.50-1.80		0.02-0.10		0.0-0.5	1.17	1.17	l I	l l	
	31-36		1.50-1.80		0.02-0.10		0.0-0.5	1.17	1 .17	l I	 	!
	36-60	1	1.55-1.80		0.01-0.07		0.0-0.5	1.10	1 .15	l I	 	!
	30-00 	1-0 	1.33-1.00	0.00-20	0.01-0.07	0.0-2.5	0.0-0.5	.10	.13	l I	 	!
1080B:	 	 	 			! 	i I	i	 	 	 	
Spoonerhill	0-3	2-15	 1.35-1.70	2.00-6.00	0.12-0.14	0.0-2.9	1.0-2.0	.24	.24	5	8	0
DP00H01H111	3-12	1		2.00-6.00	1		0.5-1.0	.17	.24			
	12-16			2.00-6.00	1		0.0-0.5	.17	.24	İ		
	16-34			2.00-6.00	•	•	0.0-0.5	.17	.24	i	İ	i
	34-46	1		0.20-0.60	0.03-0.10		0.0-0.5	.17	.17	i	İ	i
	46-80	1		0.20-0.60	1		0.0-0.5	.17	.17	i	İ	i
	İ	İ	i		i	İ	İ	i	İ	i	İ	i
Spoonerhill, stony	0-3	2-15	1.35-1.70	2.00-6.00	0.12-0.14	0.0-2.9	1.0-2.0	.24	.24	5	8	0
	3-12	2-15	1.45-1.80	2.00-6.00	0.06-0.14	0.0-2.9	0.5-1.0	.17	.24	i	İ	į
	12-16	2-15	1.55-1.80	2.00-6.00	0.05-0.13	0.0-2.9	0.0-0.5	.17	.24	i	İ	į
	16-34	2-10	1.55-1.80	2.00-6.00	0.03-0.10	0.0-2.9	0.0-0.5	.17	.24	ĺ	İ	İ
	34-46	2-10	1.80-1.85	0.20-0.60	0.03-0.10	0.0-2.9	0.0-0.5	.17	.17	ĺ	İ	İ
	46-80	2-10	1.80-1.85	0.20-0.60	0.03-0.10	0.0-2.9	0.0-0.5	.17	.17	ĺ	İ	İ
Cress	0-3	5-18	1.25-1.60	0.60-2.00	0.12-0.14	0.0-2.9	0.5-2.0	.24	.24	3	3	86
	3-15	5-18	1.40-1.70	0.60-2.00	0.12-0.17	0.0-2.9	0.5-1.0	.24	.24			
	15-31	0-8	1.50-1.80	6.00-20	0.02-0.10	0.0-2.9	0.0-0.5	.17	.17			
	31-36	0-8	1.50-1.80	6.00-20	0.02-0.10	0.0-2.9	0.0-0.5	.17	.17			
	36-60	1-6	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15			
2002. Udorthents, earthen		 	 			 	 		 	 	 	
	! 	 				1 	i I		l I	i		
2015.		 				 	i i	i	 		 	i
Pits	 	 	 			! 	i I	i	 	 	 	
1105	 	 	 			 	i I	i	 	 	 	
2050. Landfill		 	 			 	 		 	 		
			[ļ.					[
3011A:			[ļ.					[
Barronett				0.60-2.00					'	5	5	56
	9-16			0.60-2.00					'	ļ		!
				0.60-2.00								!
	34-60	8-20	1.40-1.65	0.20-0.60	0.12-0.22	0.0-2.9	0.0-0.5	.37	.37			!

Table 23.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	 Clay	 Moist bulk	Permea- bility	 Available water	Linear extensi	 Organic matter	Erosi	on fac	tors		Wind erodi-
and soll hame		 	bulk density	ртттсй	water capacity	extensi-	matter	Kw	 Kf	T	bility group	-
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	i i	Ī	i i	<u> </u>	i
j		į			İ	j	İ	į	İ	į	j	į
3082E:										_		
Braham	0-8 8-28		1.45-1.55 1.50-1.60		0.10-0.12		0.5-1.5	.10	10	5	2	134
	28-42			0.20-2.00	0.15-0.19		0.2-0.8				l I	
	42-48			0.60-2.00	0.15-0.19		0.0-0.5				 	
	48-80			0.60-2.00	0.15-0.19		0.0-0.5			i	! 	i
i		į	İ		İ	į	į	į	į	į	j	İ
Shawano	0-2		1.00-1.35		0.07-0.09		0.5-1.0	.05	.05	5	1	220
	2-4		1.45-1.70		0.07-0.09		0.0-0.5	.05	.05	ļ		!
	4-26		1.45-1.70		0.07-0.09		0.0-0.5	.05	.05			
	26-60	1-3	1.50-1.70	6.00-20	0.05-0.08	0.0-2.9	0.0-0.5	.05	.05		 	
3114A:								1			 	
Saprists	0-80	0-0	0.10-0.25	0.20-5.95	0.35-0.45	i	25-99	.02	.02	3	8	0
I												
Aquents	0 - 3		0.10-0.35		0.35-0.55		30-80	.02	.02	5	8	0
	3-8		1.35-1.65		0.07-0.12		10-20	1.10	.10			
	8-16 16-22		1.70-1.80 1.70-1.80		0.06-0.11		0.1-2.0	1.15	.17 .17	1	 	
	22-60		1.70-1.80 1.70-1.80		0.05-0.11		0.1-2.0	.15	.17		l I	
	22 00			0.00 20		0.0 2.5		.13	.13		 	
Aquepts	0 - 4	0-0	0.15-0.45	2.00-6.00	0.35-0.45	i	30-60	.02	.02	4	8	0
İ	4-15	10-17	1.50-1.60	0.60-2.00	0.11-0.19	0.0-2.9	0.0-2.0	.37	.37	ĺ	ĺ	İ
I	15-28			0.60-2.00	0.06-0.19	1	0.0-0.5	.32	.32			
	28-60	0-5	1.55-1.80	6.00-20	0.01-0.07	0.0-2.9	0.0-0.5	.10	.15	ļ		!
3125A:						 					 	
Meehan	0-5	 4-10	 1.35-1.65	6 00-20	0.09-0.11	0 0-2 9	0.5-3.0	1 .10	1 .10	 5	 2	134
Meenan	5-8		1.60-1.70		0.03-0.11		0.0-0.5	1.15	1.15		4	131
	8-28		1.60-1.70		0.02-0.10		0.0-0.5	1.15	.15	i	! 	i
i	28-60	0-4	1.60-1.70	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.15	.15	į	j	İ
I					ļ.		[1	[[
3126A:										_		
Wurtsmith	0-9 9-37		1.30-1.65 1.40-1.60		0.07-0.09		1.0-6.0	1.10	.10	5	2	134
	37-60		1.50-1.65		0.05-0.07		0.0-0.5	.15	1.15		 	
										i	İ	i
3312B:		j	j i		İ	İ	Ì	İ	į	İ	j	į
Glendenning, very												
stony	0-5				0.12-0.14		1.0-2.0	.24	.24	4	8	0
	5-15 15-20		1.40-1.70		0.08-0.19		0.5-1.0	.24	.24			
	20-26			0.60-2.00 0.60-2.00	1		0.0-0.5	1.17	.24	 	 	
	26-40	1		0.20-0.60	1			1	.24	i	 	
i	40-65			0.20-0.60			0.0-0.5	.17	.24	i	İ	i
İ	65-80	5-15	1.80-2.00	0.01-0.06	0.02-0.05	0.0-2.9	0.0-0.5	.17	.24	İ	j	į
Glendenning	0-7			0.60-2.00	•		1.0-2.0	.24	.24	4	8	0
	7-15 15-20			0.60-2.00 0.60-2.00	•		0.5-1.0	.24	.24		 	
	20-26			0.60-2.00				1 .17	.24		 	
	26-40			0.20-0.60	•				.24		! 	i
	40-65			0.20-0.60	•			.17	.24	į	İ	į
į	65-80	5-15	1.80-2.00	0.01-0.06	0.02-0.05	0.0-2.9		.17	.24			
3336A:	0 0		1 25 1 65	0.60.000								
Fenander	0-9 9-15			0.60-2.00 0.60-2.00	•		2.0-3.0	.28	.28	5	3 	86
	15-27			0.60-2.00	•			.24	.24		 	
	27-33			0.60-2.00	•				.24	i		i
i	33-80			0.20-0.60	•		0.0-0.5	.32	.32	i	İ	i
i			l i				1			1		

Table 23.--Physical Properties of the Soils--Continued

Map symbol and soil name	 Depth	 Clay	 Moist bulk	Permea-	Available	1	Organic	Erosi	on fac	tors	1	Wind erodi
and soil name	 		density	bility	water capacity	extensi- bility	matter 	Kw	 Kf	 T	bility group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	Ī			Ī	Ī
								ļ				!
3403A: Loxley	 0-13	0-0	 0.30-0.40	6.00-20	0.55-0.65	 	70-90	.02	 .02	 3	 8	 0
ToxieA	13-60		0.10-0.35		0.35-0.65		70-90	.02	.02	3 	° 	0
										İ		i
Beseman	0-36			0.60-6.00	0.35-0.45		25-75	.02	.02	2	8	0
	36-60	8-25	1.35-1.60	0.20-0.60	0.09-0.22	0.0-2.9	0.5-1.0	.43	.43			
Dawson	 0-8	0-0	 0.15-0.30	6 00-20	0.55-0.65	 	65-85	.02	 .02	 2	 8	 0
Dawson	8-38	1		0.20-6.00	1		65-85	.02	.02	-	0	
	38-40	0-15	1.55-1.75	0.60-2.00	0.18-0.20	0.0-2.9	5.0-15	.37	.37	i	į	j
	40-60	0-10	1.55-1.75	6.00-20	0.03-0.07	0.0-2.9	0.0-0.5	.15	.15			!
3429B:												
3429B: Lara	 0-10	2-10	 1.55-1.65	2.00-20	0.10-0.12	0.0-2.9	1.0-2.0	1 .10	 .10	 4	2	134
	10-35		1.55-1.70		0.06-0.11	1	0.0-0.5	.15	1.15	i -	-	
	35-42		1.55-1.70		0.05-0.10	0.0-2.9	0.0-0.0	.28	.28	į	İ	i
	42-55	60-80	1.25-1.50	0.01-0.06	0.08-0.12	6.0-8.9	0.0-0.0	.28	.28	ĺ	İ	ĺ
	55-75			0.01-0.06	0.08-0.12	1	0.0-0.0	.28	.28			
	75-80	40-80	1.25-1.50	0.01-0.06	0.08-0.12	6.0-8.9	0.0-0.0	.28	.28			
3429C:	 					 	1		 	l I	 	
Lara	0-10	2-10	1.55-1.65	2.00-20	0.10-0.12	0.0-2.9	1.0-2.0	.10	.10	4	2	134
	10-35	1-10	1.55-1.70	2.00-20	0.06-0.11	0.0-2.9	0.0-0.5	.15	.15	į	İ	i
	35-42	1-10	1.55-1.70	2.00-20	0.05-0.10	0.0-2.9	0.0-0.0	.28	.28	ĺ	İ	ĺ
	42-55			0.01-0.06	0.08-0.12	1	0.0-0.0	.28	.28			
	55-75			0.01-0.06	0.08-0.12	1	0.0-0.0	.28	.28			
	75-80 	40-80	1.25-1.50	0.01-0.06	0.08-0.12	6.0-8.9	0.0-0.0	.28	.28	l I	 	
3446A:								i				
Newson	0-3	0-0	0.10-0.35	6.00-20	0.35-0.55	i	30-80	.02	.02	5	8	0
	3-8		1.35-1.65		0.07-0.12	0.0-2.9	10-20	.10	.10			
	8-16		1.70-1.80		0.06-0.11	1	0.1-2.0	.15	.17			!
	16-22 22-60		1.70-1.80 1.70-1.80		0.06-0.11	1	0.1-2.0	1.15	.17 .15			
	22-00	1-4	1.70-1.80	0.00-20		0.0-2.9	0.0-0.5	.13	.13	 		
3448B:		İ	i i		i		İ	i	İ	İ		i
Grettum	0-3	2-12	1.35-1.60	6.00-20	0.09-0.11	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	3-32		1.40-1.65		0.05-0.10	1	0.0-0.5	.15	.15			
	32-75		1.40-1.65		0.05-0.10	1	0.0-0.5	.15	.15			
	75-80 	1-10	1.50-1.70	6.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	l I	 	
3448C:			i		i			ì	İ	i		i
Grettum	0-3	2-12	1.35-1.60	6.00-20	0.09-0.11	0.0-2.9	1.0-3.0	.10	.10	5	2	134
	3-32		1.40-1.65		0.05-0.10		0.0-0.5	.15	'			[
	32-75		1.40-1.65		0.05-0.10			.15				
	75-80 	1-10	1.50-1.70	6.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	1.15	 		
3510B:			i		i				 	i		
Pomroy	0-3	2-10	1.55-1.65	6.00-20	0.09-0.12	0.0-2.9	0.5-1.0	.10	.10	4	2	134
	3-30		1.55-1.70		0.05-0.11			.15				
	30-45			0.60-2.00	1	1		1				
	45-80	3-15	1.65-1.90	0.60-2.00	0.08-0.13	0.0-2.9	0.0-0.5	.24	.17			
Fremstadt	 0-5	2-12	1.55-1.65	2.00-6.00	0.09-0.12	0.0-2.9	1.0-2.0	.10	 .10	 5	 2	134
	5-33		1.45-1.80		1		0.6-1.0			į	-	
	33-37		1.50-1.80		0.05-0.11	0.0-2.9	0.0-0.5		'	İ	İ	İ
	37-45		1.50-1.80		0.05-0.11				'			
	45-70		1.50-1.70		0.04-0.10			.15	.17			
	70-80	2-10	1.50-1.70	2.00-6.00	0.04-0.10	0.0-2.9	0.0-0.5	.15	.17	1		

Table 23.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	 Clay 	 Moist bulk	Permea- bility	 Available water	 Linear extensi-	 Organic matter	Erosi	on fac	cors	Wind erodi- bility	
and boll name			density		capacity	bility		Kw	Kf	T	group	
	In	Pct	g/cc	In/hr	In/in	Pct	Pct	İ	<u> </u>	<u> </u>		Ī
510B:										_		
Fremstadt, stony	0-5			2.00-6.00	•	•	1.0-2.0	.10	.10	5	2	134
	5-33		1.45-1.80		0.08-0.11		0.6-1.0	.15	.17			
	33-37 37-45		1.50-1.80		0.05-0.11		0.0-0.5	1.15	.17 .17	 		
	37-45 45-70	•	1.50-1.80 1.50-1.70		0.03-0.11		0.0-0.5	1.15	.17	l I	 	
	70-80	•		2.00-20	0.04-0.10		0.0-0.5	1.15	.17	l I	 	
	70 00	2 20		2:00 0:00		0.0 2.5	0.0 0.5		•=,	 		İ
510C:		İ	İ		İ		İ	İ	İ	İ	İ	ĺ
Pomroy	0-3	2-10	1.55-1.65	6.00-20	0.09-0.12	0.0-2.9	0.5-1.0	.10	.10	4	2	134
	3-30	2-10	1.55-1.70	6.00-20	0.05-0.11	0.0-2.9	0.0-0.5	.15	.15	ĺ	İ	ĺ
	30-45	5-18	1.65-1.90	0.60-2.00	0.08-0.13	0.0-2.9	0.0-0.5	.24	.17			
I	45-80	3-15	1.65-1.90	0.60-2.00	0.08-0.13	0.0-2.9	0.0-0.5	.24	.17			
I												
Fremstadt	0 - 5	,		2.00-6.00	,		1.0-2.0	.10	.10	5	2	134
ļ	5-33		1.45-1.80		0.08-0.11		0.6-1.0	.15	.17	ļ		
	33-37	•	1.50-1.80		0.05-0.11		0.0-0.5	.15	.17	ļ		
	37-45	•	1.50-1.80		0.05-0.11		0.0-0.5	.15	.17	ļ		
	45-70	•	1.50-1.70		0.04-0.10		0.0-0.5	.15	.17			
	70-80	2-10	1.50-1.70	2.00-6.00	0.04-0.10	0.0-2.9	0.0-0.5	.15	.17			
Fremstadt, stony	0-5	2 12	 1 EE 1 6E	2.00-6.00	10 00 0 12		1.0-2.0	1.10	10	 5	2	 134
rremstadt, stony	0-5 5-33	•	1.45-1.80		0.09-0.12		0.6-1.0	1.15	.10 .17	5	4	1 134
	33-37	•	1.50-1.80		0.08-0.11		0.0-0.5	1.15	.17	l I	 	
	37-45	•	1.50-1.80		0.05-0.11		0.0-0.5	1.15	.17	l I	 	
	45-70	•	1.50-1.70		0.03-0.11		0.0-0.5	1.15	1 .17	l I	 	
	70-80	•		2.00-6.00	0.04-0.10		0.0-0.5	.15	1 .17	 	 	
										i	İ	i
511A:		İ	İ		İ	İ	İ	İ	İ	İ	İ	İ
Bushville	0 - 4	2-10	1.40-1.50	6.00-20	0.10-0.12	0.0-2.9	0.5-1.0	.10	.10	4	2	134
i	4-21	2-8	1.50-1.70	6.00-20	0.06-0.09	0.0-2.9	0.0-0.5	.10	.10	İ	İ	i
į	21-24	8-16	1.55-1.80	0.60-2.00	0.10-0.15	0.0-2.9	0.0-0.5	.24	.24	İ	İ	İ
İ	24-30	10-18	1.55-1.80	0.60-2.00	0.10-0.15	0.0-2.9	0.0-0.5	.24	.24	ĺ	İ	ĺ
I	30-45	8-16	1.65-1.80	0.60-2.00	0.11-0.13	0.0-2.9	0.0-0.5	.24	.24			
	45-60	5-15	1.80-2.00	0.01-0.06	0.02-0.04	0.0-2.9	0.0-0.5	.24	.24			
516A:												
Slimlake	0 - 6		1		0.12-0.14		1.0-3.0	.20	.20	3	3	86
	6-17		1	2.00-6.00	1		0.0-0.5	.24	.24	ļ		
	17-42	1	1.55-1.70		0.02-0.07		0.0-0.5	.10	.15			
	42-53	1	1.55-1.70		0.02-0.07		0.0-0.5	.10	.15			
	53-80	0-3	1.55-1.70	6.00-20	0.02-0.07	0.0-2.9	0.0-0.5	.10	.15			
6257.		 	l I		l I	l I	l I	l I	 	l I	 	
625A: Lino	0-7	2-10	1.40-1.60	 6 00-20	0.10-0.12	0 0-2 ¢	 0 5-2 0	1.10	 .10	 5	 2	 134
11110	7-45	•	1.50-1.70		0.06-0.10		1		1 .17]	4	1 131
	45-60	,	1.55-1.70		0.05-0.07				.15	! 	 	
										i	İ	i
626A:		İ	İ		İ	İ	İ	İ	İ	İ	İ	İ
Crex	0-1	0-0	0.15-0.30	0.60-6.00	0.55-0.65	i	65-85	.02	.02	5	2	134
į	1-7	2-7	1.35-1.60	6.00-20	0.10-0.12	0.0-2.9	0.5-8.0	.10	.10	İ	İ	ĺ
İ	7-40	1-4	1.45-1.70	6.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15	İ	į	ĺ
j	40-71	1	1.50-1.70		0.05-0.07	0.0-2.9	0.0-0.5		.15			
	71-80	1-4	1.50-1.70	6.00-20	0.05-0.07	0.0-2.9	0.0-0.5	.15	.15			
629B:												
Perida	0 - 9	,	1.35-1.65		0.09-0.11		1		.10	4	2	134
	9-43	,	1.45-1.65		0.05-0.10				.15	ļ		
I	43-45	,	1.45-1.65		0.05-0.10				.15			
ļ	45-60	,		0.01-0.06	,				.28	ļ		
	60-74	•		0.01-0.06					.28			
	74-80	1-10	1.50-1.70	6.00-20	10.05-0.07	0.0-2.9	0.0-0.5	.15	.15		1	I

Table 23.--Physical Properties of the Soils--Continued

								Erosi	on fac	tors	Wind	Wind
Map symbol	Depth	Clay	Moist	Permea-	Available	Linear	Organic	l			erodi-	erodi-
and soil name			bulk	bility	water	extensi-	matter				bility	bility
			density		capacity	bility		Kw	Kf	T	group	index
	In	Pct	g/cc	In/hr	In/in	Pct	Pct					
3636B:		 				 	 		 		 	
Plainbo	0 - 4	1-9	1.60-1.70	6.00-20	0.07-0.12	0.0-2.9	1.0-2.0	.02	.02	3	1	220
	4-13	1-9	1.55-1.70	6.00-20	0.04-0.11	0.0-2.9	0.0-0.5	.15	.15			
	13-32	1-9	1.55-1.70	6.00-20	0.03-0.10	0.0-2.9	0.0-0.5	.15	.15			
	32-75	0-0		0.20-2.00			0.0-0.0					
	75-80	0-0					0.0-0.0					
3636C:		 						 	 		 	
Plainbo	0 - 4	1-9	1.60-1.70	6.00-20	0.07-0.12	0.0-2.9	1.0-2.0	.02	.02	3	1	220
	4-13	1-9	1.55-1.70	6.00-20	0.04-0.11	0.0-2.9	0.0-0.5	.15	.15			
	13-32	1-9	1.55-1.70	6.00-20	0.03-0.10	0.0-2.9	0.0-0.5	.15	.15			
	32-75	0-0		0.20-2.00			0.0-0.0					
	75-80	0-0					0.0-0.0					
M-W.		 					 	 	 	 	 	
Miscellaneous water		İ	į į					į		İ	İ	į
W.		 				 	 	[]	 	 	 	
Water			i i					ĺ		İ	İ	İ

Table 24.--Chemical Properties of the Soils
(Absence of an entry indicates that data were not estimated)

Map symbol	Depth	Cation-			Calcium
and soil name		!	cation- exchange		carbon-
		capacity	capacity		400
	In	meq/100 g	meq/100 g	рН	Pct
3A:				 	
Totagatic	0 - 4	150-230		4.5-6.5	
İ	4-8	1.0-3.0		4.5-6.5	0
	8-17	1.0-3.0		4.5-6.5	0
	17-28	1.0-3.0		4.5-6.5	0
	28-46 46-70	1.0-3.0	 	4.5-6.5	0 0
	70-80	1.0-3.0		4.5-6.5	0
		į	ĺ	ĺ	į
Bowstring	0-38	140-180		5.6-8.4	0
	38-47 47-80	1.0-3.0	 	5.6-8.4	0
	47-80	140-180	 	5.6-8.4	0
Ausable	0-10	150-230		5.1-7.3	
	10-60	1.0-9.0		6.1-7.8	0
12A:			 	 	
Makwa	0 - 8	150-204		5.1-7.3	0
I	8-16	12-28		5.1-7.3	0
	16-43	4.0-13		5.1-7.3	0
	43-65	4.0-22	 	5.1-7.3	0
	65-80	14-36	 	6.1-7.8 	0
22A:		į	ĺ	ĺ	į
Comstock	0-8	6.0-25		4.5-7.3	0
	8-15 15-21		3.0-20 3.0-25	4.5-6.0	0
	21-34		4.0-25	4.5-6.0	0 0
	34-44		2.0-25	4.5-6.0	0
	44-60	2.0-15	2.0-25	5.1-7.3	0
27A:			 	 	
Scott Lake	0-10	5.0-20	 	4.5-7.3	0
	10-17	1.0-15		4.5-6.5	0
İ	17-24	2.0-15		4.5-6.5	0
	24-31	0.0-10		4.5-6.5	0
	31-80	0.0-6.0	 	4.5-6.5	0
28B:					
Haugen, very stony	0 - 4	3.0-17		4.5-6.5	0
	4-15	1.0-15		4.5-6.0	0
	15-23 23-35	1.0-15 1.0-15	 	4.5-6.0	0 0
	35-49	:		5.6-6.5	0
i	49-79	1.0-15		5.6-6.5	0
	79-80	1.0-15		5.6-6.5	0
Haugen	0-7	 3.0-17	 	 4.5-6.5	 0
-	7-15	1.0-15		4.5-6.0	0
İ	15-23			4.5-6.0	0
	23-35	1.0-15		4.5-6.0	0
	35-49			5.6-6.5	0
	49-79	1.0-15		5.6-6.5	0
	79-80	1.0-15		5.6-6.5	0

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	!	Effective cation- exchange capacity	!	Calcium carbon- ate
	In	meq/100 g	meq/100 g	pH	Pct
28B:			 	 	
Rosholt, very stony	0 - 4	3.0-15		4.5-7.3	0
İ	4-10	1.0-10		4.5-6.5	0
	10-14	1.0-10		4.5-6.5	0
	14-28	1.0-15		4.5-6.5	0
	28-34 34-60	1.0-10	 	4.5-6.5	0
	34-00	0.0-6.0	 	4.5-6.5	0
Rosholt	0 - 8	3.0-15		4.5-7.3	0
İ	8-10	1.0-10	i	4.5-6.5	0
I	10-14	1.0-10		4.5-6.5	0
	14-28	1.0-15		4.5-6.5	0
	28-34	1.0-10		4.5-6.5	0
	34-60	0.0-6.0	 	4.5-6.5	0
28C:					
Haugen, very stony	0 - 4	3.0-17		4.5-6.5	0
-	4-15	1.0-15	i	4.5-6.0	0
I	15-23	1.0-15		4.5-6.0	0
	23-35	1.0-15		4.5-6.0	0
	35-49	1.0-15		5.6-6.5	0
	49-79 79-80	1.0-15	 	5.6-6.5	0 0
	79-60	1.0-15	 	5.0-0.5	0
Haugen	0-7	3.0-17		4.5-6.5	0
i	7-15	1.0-15	i	4.5-6.0	0
I	15-23	1.0-15		4.5-6.0	0
	23-35	1.0-15		4.5-6.0	0
	35-49	1.0-15		5.6-6.5	0
	49-79 79-80	1.0-15	 	5.6-6.5	0 0
	73-80	1.0-15	 	3.0-0.3	0
Rosholt, very stony	0 - 4	3.0-15		4.5-7.3	0
I	4-10	1.0-10		4.5-6.5	0
	10-14	1.0-10		4.5-6.5	0
	14-28	1.0-15		4.5-6.5	0
	28-34 34-60	1.0-10		4.5-6.5	0
	34-60	0.0-6.0	 	4.5-6.5	0
Rosholt	0 - 8	3.0-15		4.5-7.3	0
i	8-10	1.0-10	i	4.5-6.5	0
I	10-14	1.0-10		4.5-6.5	0
		1.0-15		4.5-6.5	:
	28-34	1.0-10		4.5-6.5	,
	34-60	0.0-6.0	 	4.5-6.5	0
38A:					
Rosholt	0-8	3.0-15	i	4.5-7.3	0
İ	8-10	1.0-10		4.5-6.5	0
I	10-14	'		4.5-6.5	
		1.0-15		4.5-6.5	,
	28-34	1.0-10		4.5-6.5	:
	34-60	0.0-6.0	 	4.5-6.5	0
38B:			! 	! 	
Rosholt	0-8	3.0-15		4.5-7.3	0
İ	8-10	1.0-10		4.5-6.5	0
İ	10-14	1.0-10		4.5-6.5	0
	14-28			4.5-6.5	,
	28-34	1.0-10		4.5-6.5	:
	34-60	0.0-6.0		4.5-6.5	0

Table 24.--Chemical Properties of the Soils--Continued

Map symbol	Depth	Cation-	1		Calcium
and soil name			cation-	reaction	carbon-
		capacity	capacity	 	ate
	In	meq/100 g	meq/100 g	pH	Pct
			ĺ		İ
38C: Rosholt	0-8	3.0-15	 	 4.5-7.3	 0
ROSHOIC	8-10	1.0-10	 	4.5-7.3	0
	10-14	1.0-10		4.5-6.5	0
i	14-28	1.0-15	i	4.5-6.5	0
İ	28-34	1.0-10		4.5-6.5	0
	34-60	0.0-6.0		4.5-6.5	0
38D:			 	 	
Rosholt	0-8	3.0-15		4.5-7.3	0
İ	8-10	1.0-10	i	4.5-6.5	0
I	10-14	1.0-10		4.5-6.5	0
I	14-28	1.0-15		4.5-6.5	0
	28-34	1.0-10		4.5-6.5	0
	34-60	0.0-6.0	 	4.5-6.5	0
42D:					
Amery	0-3	3.0-15	i	4.5-6.5	0
I	3-22		1.0-15	4.5-6.0	0
	22-34	1.0-15		5.1-6.5	0
	34-41	1.0-15		5.1-6.5	0
	41-57	1.0-15		5.1-6.5	0
	57-71 71-80	1.0-15	 	5.1-6.5	0 0
İ					
43B:					
Antigo	0-9	4.0-20		4.5-7.3	0
	9-12 12-19	3.0-15	 	4.5-6.5	0 0
	19-28	3.0-15		4.5-6.5	0
	28-31	0.0-15		4.5-6.5	0
i	31-33	0.0-15		4.5-6.5	0
	33-60	0.0-6.0		4.5-6.5	0
43C:			 	 	
Antigo	0-9	4.0-20	 	4.5-7.3	0
	9-12	3.0-15		4.5-6.5	0
i	12-19	3.0-15	i	4.5-6.5	0
I	19-28	3.0-15		4.5-6.5	0
I	28-31	0.0-15		4.5-6.5	0
	31-33	0.0-15		4.5-6.5	0
	33-60	0.0-6.0	 	4.5-6.5	0
63A:				 	
Crystal Lake	0 - 8	6.0-25		4.5-7.3	0
I	8-12	2.0-20		4.5-7.3	0
	12-20	!	3.0-25	4.5-6.0	0
	20-32	!	4.0-25	4.5-6.0	0
	32-60	2.0-15	2.0-25	4.5-7.3	0
63B:			<u> </u>	' 	
Crystal Lake	0 - 8	6.0-25		4.5-7.3	0
	8-12			4.5-7.3	0
	12-20	1	3.0-25	4.5-6.0	0
	20-32	1	4.0-25	4.5-6.0	0
	34-60	2.0-15	2.0-25	4.5-7.3	0

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation- exchange	Effective cation-	Soil reaction	Calcium carbon-
		capacity	exchange capacity	 	ate
	In	·	meq/100 g	pH	Pct
63C:			 	 	
Crystal Lake	0 - 8	6.0-25		4.5-7.3	0
	8-12	2.0-20		4.5-7.3	0
	12-20		3.0-25	4.5-6.0	0
	20-32 32-60	2.0-15	4.0-25	4.5-6.0	0
64A:			 	 	
Totagatic	0 - 4	150-230		4.5-6.5	
	4-8 8-17	1.0-3.0	 	4.5-6.5	0 0
	17-28	1.0-3.0	 	4.5-6.5	0
	28-46	1.0-3.0		4.5-6.5	0
İ	46-70	1.0-3.0		4.5-6.5	0
	70-80	1.0-3.0	 	4.5-6.5	0
Winterfield	0 - 7	2.0-15		5.6-7.8	0
	7-60	1.0-5.0	 	5.6-8.4 	0
69C: Keweenaw	0-2	3.0-9.0	 	 4.5-6.5	0
Keweemaw	2-4	3.0-3.0		4.5-6.5	0
	4-16	1.0-9.0		4.5-6.5	0
I	16-20	0.0-15		4.5-6.5	0
	20-27	0.0-15		4.5-6.5	0
	27-43	0.0-15		4.5-6.5	0
	43-75 75-80	0.0-15	 	4.5-6.5 5.1-6.5	0
 Sayner	0-2	2.0-10	 	 4.5-6.5	0
	2-4	1.0-6.0		4.5-6.5	0
	4-7		2.0-8.0	4.5-6.0	0
	7-14 14-22	0.0-4.0	2.0-8.0	4.5-6.0	0
	22-60	0.0-6.0		4.5-6.5	0
 	0-2	2.0-10	 	 4.5-7.3	0
	2-4	1.0-6.0		4.5-6.5	0
	4-11	2.0-9.0		4.5-6.5	0
	11-23 23-32	0.0-5.0	 	4.5-6.5	0 0
	32-80	0.0-3.0		4.5-6.5	0
69E:			 	 	
Keweenaw	0-2 2-4	3.0-9.0	 	4.5-6.5	0
	2-4 4-16	1.0-9.0	 	4.5-6.5	0
	16-20	0.0-15		4.5-6.5	0
	20-27	0.0-15		4.5-6.5	0
İ	27-43	0.0-15		4.5-6.5	0
	43-75 75-80	0.0-15	 	4.5-6.5	0
Sayner	0-2	2.0-10	 	4.5-6.5	0
palmer	2-4	1.0-6.0	 	4.5-6.5	0
	4-7		2.0-8.0	4.5-6.0	0
İ	7-14		2.0-8.0	4.5-6.0	0
	14-22	0.0-4.0		4.5-6.5	0
	22-60	0.0-6.0		4.5-6.5	0

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth		Effective cation-	Soil reaction	Calcium
		capacity			ate
	In	 meg/100 g	meg/100 g	pH	Pct
				į -	į
69E: Vilas	0-2	2.0-10	 	 4.5-7.3	
Vilas	2-4	1.0-6.0	 	4.5-7.3	0
	4-11	2.0-9.0	 	4.5-6.5	0
	11-23	0.0-5.0		4.5-6.5	0
i	23-32	0.0-3.0	i	4.5-6.5	0
	32-80	0.0-3.0		4.5-6.5	0
82B:			 	 	
Cutaway	0-10	2.0-14	 	5.1-6.5	0
-	10-21	2.0-14	i	5.1-6.5	0
İ	21-24	4.0-23	i	5.1-6.5	0
I	24-35	14-22		5.6-7.3	0
	35-53	8.0-18		5.6-7.3	0-2
	53-80	8.0-18		7.4-8.4	1-3
Branstad	0-9	7.0-16	 	5.1-7.8	0
i	9-14	6.0-17	i	5.1-7.8	0
İ	14-20	7.0-19		5.1-7.8	0
I	20-45	7.0-19		5.1-7.8	0
	45-55	7.0-19		5.1-7.8	0
	55-68	7.0-19 7.0-19		6.6-8.4	0
	68-80	/.0-19	 	7.4-8.4	1-10
82C:					İ
Cutaway	0-10	2.0-14	i	5.1-6.5	0
	10-21	2.0-14		5.1-6.5	0
	21-24	4.0-23		5.1-6.5	0
	24-35	14-22		5.6-7.3	0
	35-53 53-80	8.0-18	 	5.6-7.3	0-2
	33 00				13
Branstad	0 - 9	7.0-16		5.1-7.8	0
	9-14	6.0-17		5.1-7.8	0
	14-20	7.0-19		5.1-7.8	0
	20-45	7.0-19	 	5.1-7.8	0
	45-55 55-68	7.0-19 7.0-19	 	5.1-7.8	0
	68-80	7.0-19		7.4-8.4	1-10
İ		İ	İ	İ	İ
83A: Smestad	0 10	4.0-15	 	 5.1-6.5	
Smestad	0-10 10-32	1	 	5.1-6.5	0
	32-37	1		4.5-7.3	0
	37-57	1		5.1-7.3	0
İ	57-80			7.4-8.4	3-7
85B: Taylor	0-9	9.0-20	 	 5.6-7.3	0
layioi	9-14	'	 	5.6-7.3	0
	14-25	1		5.1-7.8	0
i	25-32	39-57	i	7.4-8.4	0-5
į	32-60	35-57		7.4-8.4	1-10
85C:			 	 	
Taylor	0 - 9	9.0-20	 	5.6-7.3	0
-	9-14	1		5.6-7.3	0
į	14-25	42-66	i	5.1-7.8	0
	25-32	1		7.4-8.4	0-5
	32-60	35-57		7.4-8.4	1-10

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation- exchange capacity	!	Soil reaction 	Calcium carbon- ate
			capacity		
	In	meq/100 g	meq/100 g	рН	Pct
86A:			 	 	
Indus	0-9	17-35		5.1-6.5	0
	9-21	30-60		5.6-7.3	0
	21-25	30-60		5.6-7.3	0
	25-39 39-60	25-55	 	7.4-8.4	5-30
	39-00	23-33	 	/. <u>1</u> -0.1	0-20
Alango	0-9	17-35	i	5.1-6.5	0
	9-10	15-25		5.1-7.3	0
	10-28	30-60		5.6-7.3	0
	28-60 60-80	25-55 25-55	 	7.4-8.4	10-30
	60-80	25-55	 	/.4-8.4 	5-25
89A:					İ
Wildwood	0-12	140-200		5.1-6.5	0
	12-17	30-60		5.6-7.3	0
	17-24 24-60	30-60	 	5.6-7.3	0
	24-60	30-60	 	/.4-8.4 	5-30
96B:			!	! 	İ
Karlsborg	0-9	2.0-10	i	4.5-6.5	0
	9-28	2.0-10		4.5-6.5	0
	28-48	12-65	 	4.5-6.5	0
	48-80	1.0-5.0	 	4.5-6.5	0
96C:			 	 	
Karlsborg	0-9	2.0-10	i	4.5-6.5	0
	9-28	2.0-10		4.5-6.5	0
	28-48	12-65		4.5-6.5	0
	48-80	1.0-5.0	 	4.5-6.5	0
96D:			 	 	
Karlsborg	0-9	2.0-10	i	4.5-6.5	0
	9-28	2.0-10		4.5-6.5	0
	28-48	12-65		4.5-6.5	0
	48-80	1.0-5.0	 	4.5-6.5	0
100B:			 	 	
Menahga	0-2	1.0-8.0	i	4.5-5.5	0
	2-25		2.0-4.0	4.5-5.5	0
	25-80	0.0-2.0		5.1-7.3	0
100C:			 	 	
Menahga	0-1		80-120	4.5-5.5	
i	1-2	1.0-8.0	i	4.5-5.5	0
	2-25			4.5-5.5	0
	25-80	0.0-2.0		5.1-7.3	0
100D:			 	 	1
Menahga	0-1		80-120	4.5-5.5	
i	1-2	1.0-8.0	i	4.5-5.5	0
	2-25			4.5-5.5	0
	25-80	0.0-2.0		5.1-7.3	0
120B:			 	 	
Kost	0-9	1.0-7.0		5.1-7.3	0
	9-25	1.0-7.0	i	5.1-7.3	0
	25-36	1		5.1-7.3	0
	36-42 42-60	1	 	5.1-7.3	0

Table 24.--Chemical Properties of the Soils--Continued

Map symbol	Depth	Cation-	!		Calcium
and soil name		capacity	cation-	reaction	carbon-
		capacity	capacity	 	ace
	In	meq/100 g	meq/100 g	pН	Pct
127D:			 	 	
Amery	0-3	3.0-15	 	4.5-6.5	0
i	3-22	i	1.0-15	4.5-6.0	0
İ	22-34	1.0-15		5.1-6.5	0
I	34-41	1.0-15		5.1-6.5	0
	41-57	1.0-15		5.1-6.5	0
	57-71	1.0-15		5.1-6.5	0
	71-80	1.0-15	 	5.6-6.5	0
Rosholt	0 - 4	3.0-15		4.5-7.3	0
I	4-10	1.0-10		4.5-6.5	0
	10-14	1.0-10		4.5-6.5	0
	14-28	1.0-15		4.5-6.5	0
	28-34	1.0-10		4.5-6.5	0
	34-60	0.0-6.0	 	4.5-6.5	0
127E:				 	
Amery	0-3	3.0-15		4.5-6.5	0
	3-22		1.0-15	4.5-6.0	0
I	22-34	1.0-15		5.1-6.5	0
	34-41	1.0-15		5.1-6.5	0
I	41-57	1.0-15		5.1-6.5	0
	57-71	1.0-15		5.1-6.5	0
	71-80	1.0-15	 	5.6-6.5	0
Rosholt	0 - 4	3.0-15	 	4.5-7.3	0
	4-10	1.0-10		4.5-6.5	0
I	10-14	1.0-10		4.5-6.5	0
I	14-28	1.0-15		4.5-6.5	0
	28-34	1.0-10		4.5-6.5	0
	34-60	0.0-6.0		4.5-6.5	0
151A:			 	 	
Bluffton	0 - 8	5.0-25	i	5.6-7.8	0
į	8-19	4.0-25		5.6-7.8	0
İ	19-22	4.0-25		7.4-8.4	0
I	22-26	4.0-25		7.4-8.4	0
	26-38	4.0-25		7.4-8.4	0
	38-60	4.0-25		7.4-8.4	0
152A:			 	 	
Alstad	0-9	5.0-25	i	4.5-7.8	0
į	9-15	1.0-15		4.5-7.8	0
	15-18	2.0-20		4.5-7.8	0
I	18-24	2.0-20		6.6-8.4	0
I	24-49	4.0-25		6.6-8.4	0
	49-60	2.0-15		7.4-8.4	1-10
154E:			 	 	
Cushing	0-5	5.0-25		4.5-7.8	0
-	5-15			4.5-7.8	0
		2.0-20		4.5-7.8	0
i	33-57	:	i	6.6-8.4	
i	57-65	4.0-25	i	6.6-8.4	5-15
İ	65-73	4.0-25	i	6.6-8.4	5-15
ı	73-80	2.0-15		7.4-8.4	1-10

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation- exchange capacity	cation- exchange		Calcium carbon- ate
			capacity	<u> </u>	<u> </u>
	In	meq/100 g	meq/100 g	pH	Pct
156B:					
Magnor, very stony	0 - 4	i	3.0-20	3.5-7.3	0
I	4-11		1.0-15	3.5-6.0	0
	11-16		1.0-15	3.5-6.0	0
	16-21		1.0-15	3.5-6.0	0
	21-39 39-58	1.0-15	 	4.5-6.5	0
	58-60	1.0-13	 	5.1-6.5	0
	55 55		 		
Magnor	0-8		3.0-20	3.5-7.3	0
İ	8-11		1.0-15	3.5-6.0	0
I	11-16		1.0-15	3.5-6.0	0
	16-21		1.0-15	3.5-6.0	0
	21-39	1.0-15		4.5-6.5	0
	39-58 58-60	1.0-15	 	4.5-6.5	0
	30-00	1.0-10	 	3.1-6.3	0
157B:			! 	! 	
Freeon, very stony	0 - 4		3.0-20	4.5-6.5	0
i	4-19	1.0-15		4.5-6.5	0
I	19-39	1.0-15		4.5-6.5	0
	39-53	1.0-10		4.5-6.5	0
	53-80	1.0-10		4.5-6.5	0
T	0 4				0
Freeon	0-4 4-19	1.0-15	3.0-20	3.5-7.3	0
	19-39	1.0-15		4.5-6.5	0
	39-53	1.0-10		4.5-6.5	0
İ	53-80	1.0-10		4.5-6.5	0
I					
157C:					
Freeon, very stony			3.0-20	4.5-6.5	0
	4-19 19-39	1.0-15	 	4.5-6.5	0
	39-53	1.0-10		4.5-6.5	0
	53-80	1.0-10		4.5-6.5	0
i		İ	İ	İ	į
Freeon	0 - 4		3.0-20	3.5-7.3	0
	4-19	1.0-15		4.5-6.5	0
	19-39	1.0-15		4.5-6.5	0
	39-53 53-80	1.0-10	 	4.5-6.5	0
	33-60	1.0-10	 	4.5-6.5	0
160A:					
Oesterle	0 - 7	6.0-20		4.5-6.5	0
İ	7-11	3.0-15		4.5-6.5	0
	11-31	1.0-10		4.5-6.5	0
	31-60	0.0-6.0		4.5-6.5	0
16ED:			 		
165B: Elderon	0-7	5.0-20	 		
PIGETOH	7-15	5.0-20	 	5.1-7.3	
	15-44	1.0-8.0	 	5.1-7.3	
	44-60	1.0-7.0	:	6.6-7.8	1

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	exchange	exchange	Soil reaction 	Calcium carbon- ate
	In	/100 -	meg/100 g	***	 Pct
 	111	meq/100 g	meq/100 g	pH 	PCL
185B:		İ			j
Tradelake	0-9	9.0-20		5.1-6.5	0
I	9-13	4.0-19		5.1-6.5	0
!	13-21	4.0-19		5.1-6.5	0
ļ	21-25	4.0-19		5.6-7.3	0
ļ.	25-48 48-52	35-57 35-57	 	5.1-7.3	0
i	52-80	1.0-7.0	 	5.6-7.3	0
i					
Taylor	0 - 9	9.0-20		5.6-7.3	0
I	9-14	8.0-29		5.6-7.3	0
ļ	14-25	42-66		5.1-7.8	0
!	25-32	39-57		7.4-8.4	0-5
ļ	32-60	35-57		7.4-8.4	1-10
185C:		l I	 	 	
Tradelake	0-9	9.0-20	 	5.1-6.5	0
i	9-13	4.0-19		5.1-6.5	0
į	13-21	4.0-19		5.1-6.5	0
I	21-25	4.0-19		5.6-7.3	0
ļ	25-48	35-57		5.1-7.3	0
	48-52	35-57		5.1-7.3	0
ļ	52-80	1.0-7.0		5.6-7.3	0
Taylor	0 - 9	9.0-20	 	5.6-7.3	0
	9-14	8.0-29		5.6-7.3	0
i	14-25	42-66		5.1-7.8	0
į	25-32	39-57		7.4-8.4	0-5
Į.	32-60	35-57		7.4-8.4	1-10
10ED.			İ	İ	
185D: Tradelake	0 - 9	9.0-20	 	 5.1-6.5	0
	9-13	4.0-19	 	5.1-6.5	0
i	13-21	4.0-19		5.1-6.5	0
į	21-25	4.0-19		5.6-7.3	0
I	25-48	35-57		5.1-7.3	0
I	48-52	35-57		5.1-7.3	0
	52-80	1.0-7.0		5.6-7.3	0
Taylor	0 - 9	9.0-20	 	 5.6-7.3	0
lay101	9-14	8.0-29		5.6-7.3	0
i	14-25	42-66		5.1-7.8	0
į	25-32	39-57		7.4-8.4	0-5
į	32-60	35-57		7.4-8.4	1-10
185E: Tradelake	0 - 9	9.0-20	 		0
Tradelake	9-13	'	 	5.1-6.5 5.1-6.5	1
i		4.0-19	 	5.1-6.5	0
ľ		4.0-19		5.6-7.3	0
į	25-48	,		5.1-7.3	0
į	48-52			5.1-7.3	0
!	52-80	1.0-7.0		5.6-7.3	0
Tavilon	0 0		 		
Taylor	0-9 9-14	9.0-20	 	5.6-7.3	0
	9-14 14-25	1	 	5.6-7.3	
	25-32	'	 	7.4-8.4	

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	capacity	cation-	1	Calcium carbon- ate
	In	:	meg/100 g	рн	Pct
				İ	İ
189A:	0.0	11.00			
Siren	0-9 9-13	11-26 3.0-19	 	4.5-6.5	0 0
	13-20	3.0-19	 	5.1-6.5	0
j	20-43	20-42	 	5.1-8.4	0-1
	43-80	20-42	i	6.1-8.4	0-12
193A:			 	 	
Minocqua	0-4	120-190	 	4.5-7.8	0
- i	4-15	2.0-20	i	4.5-7.8	0
İ	15-28	1.0-15		4.5-6.5	0
	28-60	0.0-6.0		4.5-6.5	0
337A:			 	 	
Plover	0-10	5.0-10		4.5-7.3	0
	10-13		2.0-15	4.5-6.5	0
	13-18		2.0-15	4.5-6.5	0
	18-32 32-60	1.0-10	2.0-15	4.5-6.5	0
	32-60	1.0-10	 	5.1-6.5	0
368B:					
Mahtomedi	0-5	2.0-11		5.1-6.5	0
	5-8	0.0-6.0		5.1-6.5	0
	8-15	0.0-6.0		5.1-6.5	0
	15-30 30-60	0.0-6.0	 	5.1-6.5	0 0
	30-00			3.1-7.0	
Cress	0-3	2.0-20	i	4.5-7.3	0
	3-15	1.0-15		4.5-6.0	0
	15-31		0.0-7.0	4.5-6.0	0
	31-36 36-60	0.0-6.0	0.0-7.0	4.5-6.0	0
			!		
368C:			ĺ	ĺ	İ
Mahtomedi	0-5	2.0-11		5.1-6.5	0
	5-8 8-15	0.0-6.0	 	5.1-6.5	0
	15-30	0.0-6.0	 	5.1-6.5	0
	30-60	0.0-6.0		5.1-7.8	0
		İ	İ	İ	İ
Cress	0-3	2.0-20		4.5-7.3	0
	3-15	1.0-15		4.5-6.0	0
	15-31 31-36		0.0-7.0	4.5-6.0 4.5-6.0	0
	36-60	'		4.5-6.5	0
		İ	İ	İ	j
368D:					
Mahtomedi	0-5	2.0-11		5.1-6.5	0
	5-8 8-15	0.0-6.0	 	5.1-6.5	0
	15-30		 	5.1-6.5	0
		0.0-6.0		5.1-7.8	0
İ			ļ	ļ	ļ
Cress	0-3	2.0-20	:	4.5-7.3	0
	3-15			4.5-6.0	0
	15-31 31-36		0.0-7.0	4.5-6.0	0
		0.0-6.0		4.5-6.5	0
			İ	i	

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	'	Effective cation- exchange		Calcium carbon- ate
		İ	capacity		<u> </u>
	In	meq/100 g	meq/100 g	pН	Pct
368E:			 	 	
Mahtomedi	0-5	2.0-11		5.1-6.5	0
İ	5-8	0.0-6.0		5.1-6.5	0
	8-15	0.0-6.0		5.1-6.5	0
	15-30	0.0-6.0		5.1-6.5	0
	30-60	0.0-6.0		5.1-7.8	0
Cress	0-3	2.0-20	 	4.5-7.3	0
	3-15	1.0-15		4.5-6.0	0
j	15-31		0.0-7.0	4.5-6.0	0
	31-36		0.0-7.0	4.5-6.0	0
	36-60	0.0-6.0		4.5-6.5	0
380B:			 	 	
Cress	0-3	2.0-20	 	4.5-7.3	0
	3-15	1.0-15		4.5-6.0	0
	15-31	j	0.0-7.0	4.5-6.0	0
	31-36		0.0-7.0	4.5-6.0	0
	36-60	0.0-6.0		4.5-6.5	0
Rosholt	0 - 8	3.0-15	 	 4.5-7.3	0
ROSHOIC	8-10	1.0-10	 	4.5-7.3	0
j	10-14	1.0-10	 	4.5-6.5	0
	14-28	1.0-15		4.5-6.5	0
İ	28-34	1.0-10		4.5-6.5	0
	34-60	0.0-6.0		4.5-6.5	0
380C:			 	 	
Cress	0-3	2.0-20	 	 4.5-7.3	0
CICDD	3-15	1.0-15	 	4.5-6.0	0
i	15-31		0.0-7.0	4.5-6.0	0
j	31-36		0.0-7.0	4.5-6.0	0
	36-60	0.0-6.0		4.5-6.5	0
Darbalt	0 0	2 0 15	 	4 5 7 3	
Rosholt	0-8 8-10	3.0-15	 	4.5-7.3	0
	10-14	1.0-10		4.5-6.5	0
	14-28	1.0-15		4.5-6.5	0
j	28-34	1.0-10		4.5-6.5	0
	34-60	0.0-6.0		4.5-6.5	0
380D:			İ	İ	
Cress	0-3	2.0-20	 	 4.5-7.3	0
01025		1.0-15	'	4.5-6.0	'
İ	15-31	i	'	4.5-6.0	'
	31-36		0.0-7.0	4.5-6.0	0
	36-60	0.0-6.0		4.5-6.5	0
Rosholt	0 0	3.0-15	 	 4.5-7.3	0
ROSHOIT		1.0-10		4.5-7.3	
j		1.0-10		4.5-6.5	
		1.0-15	1	4.5-6.5	1
		1.0-10		4.5-6.5	0
	34-60	0.0-6.0		4.5-6.5	0
2025.			 	 	
383B: Mahtomedi	0-5	2.0-11	 	 5.1-6.5	0
Man comedi	5-8	0.0-6.0	 	5.1-6.5	1
		0.0-6.0		5.1-6.5	'
j		0.0-6.0		5.1-6.5	'
	20 60	0.0-6.0		5.1-7.8	0

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth 	exchange capacity	exchange	Soil reaction 	Calcium carbon- ate
	 In	·	meq/100 g	рн	Pct
	111	meq/100 g	meq/100 g	PH	FCC
383C:	į	İ	İ	İ	į
Mahtomedi	0-5	2.0-11		5.1-6.5	0
	5-8	0.0-6.0		5.1-6.5	0
	8-15	0.0-6.0		5.1-6.5	0
	15-30	0.0-6.0		5.1-6.5	0
	30-60	0.0-6.0		5.1-7.8	0
383D:	 		 	 	
Mahtomedi	0-5	2.0-11		5.1-6.5	0
	5-8	0.0-6.0		5.1-6.5	0
	8-15	0.0-6.0		5.1-6.5	0
	15-30	0.0-6.0		5.1-6.5	0
	30-60	0.0-6.0		5.1-7.8	0
392C:		00 100			
Rockmarsh	0-1 1-8	80-120 5.0-22	 	5.1-7.3	
	1-8 8-23	1.0-9.0	 	5.1-7.3	0 0
	23-46	10-25	 	5.1-7.3	0
	46-80	3.0-14	 	5.6-7.3	0
Dairyland	0-1	120-170		5.1-7.3	
	1-7	3.0-10		5.1-7.3	0
	7-14	1.0-9.0		5.1-6.5	0
	14-36	1.0-8.0		5.1-6.5	0
	36-49	1.0-8.0		5.1-6.5	0
	49-80	3.0-15		5.1-7.8	0
Malana		150 004			
Makwa	0-8 8-16	150-204 12-28	 	5.1-7.3	0
	16-43	4.0-13	 	5.1-7.3	0
	43-65	4.0-22	 	5.1-7.3	0
	65-80	14-36		6.1-7.8	0
	İ	İ	İ		j
396B:					
Friendship	0-4		1.0-4.0	4.5-7.3	0
	4-29		1.0-2.0	4.5-6.5	0
	29-60		1.0-2.0	4.5-6.5	0
Wurtsmith	 0-6		 2.0-14	 3.5-5.5	0
wur csmich	6-33		1.0-2.0	3.5-6.0	0
	33-60		1.0-2.0	3.5-7.3	0
Grayling	0-3		2.0-14	3.5-5.5	0
	3-15		1.0-4.0	3.5-5.5	0
	15-23	1.0-2.0		5.6-7.3	0
	23-60	1.0-2.0		5.6-7.3	0
397A:					
Perchlake		1.0-7.0	 	4.5-6.5	0
	9-18 18-42	1	 	4.5-6.5	0 0
	42-46		2.0-15	4.5-6.5	0
	46-60	1		4.5-6.5	0
399B:	İ	į			j
Grayling	0-3		2.0-14	3.5-5.5	0
	3-15		1.0-4.0	3.5-5.5	0
	15-23	1.0-2.0		5.6-7.3	0
	23-60	1.0-2.0		5.6-7.3	0

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	exchange capacity	'	Soil reaction 	Calcium carbon- ate
	In	<u> </u>	meg/100 g	рН	Pct
į				<u> </u>	į
399C:	0-3		 2.0-14	 3.5-5.5	 0
Grayling	0-3 3-15		1.0-4.0	3.5-5.5	0
	15-23	1.0-2.0		5.6-7.3	0
j	23-60	1.0-2.0		5.6-7.3	0
399D: Grayling	0-3		 2.0-14	 3.5-5.5	 0
Graying	3-15		1.0-4.0	3.5-5.5	0
	15-23	1.0-2.0		5.6-7.3	0
	23-60	1.0-2.0		5.6-7.3	0
406A:	0-13		 FO 100		
Loxley	13-60		50-100 50-120	3.5-4.4	0 0
	13-60		30-120 	3.3-4.4	0
407A:					İ
Seelyeville	0-80	140-200		4.5-7.3	0
Markey		150-230		4.5-7.8	0
	32-60	1.0-3.0	 	5.6-8.4	0
410A:					
Seelyeville	0-80	140-200		4.5-7.3	0
I					
Cathro	0-28	150-230		4.5-7.8	0
	28-49	2.0-20		5.6-7.3	5-25
	49-60	2.0-20	 	5.6-7.3	5-25
419A:			! 	! 	
Seelyeville	0-80	140-200		4.5-7.3	0
Cathro	0-28	150-230	 	4.5-7.8	0
	28-49 49-60	2.0-20	 	5.6-7.3	5-25
	15 00	2.0 20	 	3.0 7.3	3 23
Markey	0-32	150-230		4.5-7.8	0
İ	32-60	1.0-3.0		5.6-8.4	0
421A: Dora	0-12	150 220	 	 4.5-7.8	
Dola	12-32	150-230 150-230	 	4.5-7.8	0 0
	32-36	1	 	6.1-8.4	
i		2.0-20		6.1-8.4	
İ	42-60	2.0-20		6.1-8.4	0
		!			
Markey		150-230	'	4.5-7.8	'
	32-60	1.0-3.0		5.6-8.4	0
Seelyeville	0-80	140-200	 	4.5-7.3	0
		İ			
422A:					
Seelyeville	0-80	140-200		4.5-7.3	0
Cathro	0.00	150 000	 		
Cathro	0-28	150-230	 	4.5-7.8	'
		2.0-20	 	5.6-7.3	1
	••				
Rondeau	0-44	140-200		5.1-7.8	0

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation- exchange	Effective cation-	Soil reaction	Calcium
İ		capacity	exchange capacity	 	ate
	In	meq/100 g		рн	Pct
426B: Emmert	0-1	2.0-9.0	 	 5.1-6.5	0
	1-5	1.0-8.0		5.1-7.3	0
į	5-24	1.0-7.0		5.1-7.3	0
	24-60	1.0-7.0		5.1-7.8	0
Mahtomedi	0-5	2.0-11	 	 5.1-6.5	0
İ	5-8	0.0-6.0		5.1-6.5	0
I	8-15	0.0-6.0		5.1-6.5	0
	15-30	0.0-6.0		5.1-6.5	0
	30-60	0.0-6.0	 	5.1-7.8	0
Menahga	0-1		80-120	4.5-5.5	
I	1-2		4.0-10	3.5-6.5	0
	2-25		2.0-4.0	4.5-5.5	0
	25-80	0.0-2.0	 	5.1-7.3	0
426C:					İ
Emmert	0-1	2.0-9.0		5.1-6.5	0
	1-5	1.0-8.0		5.1-7.3	0
l l	5-24 24-60	1.0-7.0	 	5.1-7.3 5.1-7.8	0
 	24-60	1.0-7.0	 	5.1-7.8	0
Mahtomedi	0-5	2.0-11		5.1-6.5	0
I	5-8	0.0-6.0		5.1-6.5	0
ļ	8-15	0.0-6.0		5.1-6.5	0
	15-30	0.0-6.0		5.1-6.5	0
	30-60	0.0-6.0	 	5.1-7.8	0
Menahga	0-1		80-120	4.5-5.5	
I	1-2		4.0-10	3.5-6.5	0
I	2-25		2.0-4.0	4.5-5.5	0
	25-80	0.0-2.0	 	5.1-7.3	0
426D:			! 	! 	
Emmert	0-1	2.0-9.0		5.1-6.5	0
!	1-5	1.0-8.0		5.1-7.3	0
ļ	5-24	1.0-7.0	 	5.1-7.3	0
 	24-60	1.0-7.0	 	5.1-7.8 	0
Mahtomedi	0-5	2.0-11		5.1-6.5	0
I	5-8	0.0-6.0		5.1-6.5	0
ļ		0.0-6.0		5.1-6.5	0
	15-30			5.1-6.5	0
	30-60	0.0-6.0	 	5.1-7.8 	0
Menahga	0-1		80-120	4.5-5.5	i
I	1-2		4.0-10	3.5-6.5	0
	2-25		2.0-4.0	4.5-5.5	0
	25-80	0.0-2.0	 	5.1-7.3 	0
430A:		į			į
Freya	0-11	3.0-9.0		5.1-7.3	0
	11-32	1.0-6.0	 	5.1-6.5	0
	32-47	1.0-6.0		5.1-7.3	0
I					
	47-66 66-72	30-41	 	7.9-8.4	5-15

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	,	Effective cation- exchange capacity		Calcium carbon ate
	In	meq/100 g	meq/100 g	pH	Pct
139B: Graycalm	0-3		4.0-10	3.5-6.5	0
524/5424	3-22		2.0-4.0	3.5-7.3	0
i	22-35		1.0-5.0	3.5-7.3	0
	35-60	ļ	1.0-5.0	3.5-7.3	0
Menahga	0-1		 80-120	 4.5-5.5	
	1-2		4.0-10	3.5-6.5	0
i	2-25	i	2.0-4.0	4.5-5.5	0
	25-80	0.0-2.0	į	5.1-7.3	0
139C:			 	 	
Graycalm	0-3		4.0-10	3.5-6.5	0
I	3-22		2.0-4.0	3.5-7.3	0
I	22-35		1.0-5.0	3.5-7.3	0
	35-60		1.0-5.0	3.5-7.3	0
Menahga	0-1		80-120	4.5-5.5	
I	1-2		4.0-10	3.5-6.5	0
I	2-25		2.0-4.0	4.5-5.5	0
	25-80	0.0-2.0		5.1-7.3	0
139D:				 	
Graycalm	0-3		4.0-10	3.5-6.5	0
	3-22		2.0-4.0	3.5-7.3	0
	22-35		1.0-5.0	3.5-7.3	0
	35-60		1.0-5.0	3.5-7.3	0
Menahga	0-1		80-120	4.5-5.5	
	1-2		4.0-10	3.5-6.5	0
	2-25 25-80	0.0-2.0	2.0-4.0	4.5-5.5	0
	25 00				
142C:	0 - 4				
Haugen	4-15	3.0-17	 	4.5-6.5	0
	15-23	1.0-15		4.5-6.0	0
	23-35	1.0-15		4.5-6.0	0
	35-49	1.0-15		5.6-6.5	0
i	49-79	1.0-15		5.6-6.5	0
	79-80	1.0-15		5.6-6.5	0
Greenwood	0 - 6		80-120	3.5-4.5	0
	6-60		150-200	3.5-4.5	0
143D:					
Amery		3.0-15	1	4.5-7.3	
	3-22	1		4.5-6.0	1
		1.0-15		5.1-6.5	
		1.0-15	1	5.1-6.5	
		1.0-15	1	5.1-6.5	
		1.0-15	1	5.6-6.5	1
Greenwood	0-6		 80-120	2 5 4 5	
Greenwood	0-6 6-60	1	80-120 150-200		1
1503					
159A: Loxley	0-13		 50-100	 3.5-4.4	0
-	13-60	1		3.5-4.4	

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth		!		Calcium carbon ate
	In	 meg/100 g	meq/100 g	рн	Pct
			meq/100 g	1	
159A:					
Daisybay	0 - 7		140-200	3.5-4.4	0
	7-30		140-200	3.5-5.5	0
	30-35 35-80	16-28	140-200	4.6-6.0 5.6-7.8	0 0-5
i	33 00	10 20		3.0 7.0	
Dawson	0 - 8		80-120	3.5-4.4	0
I	8-38		150-230	3.5-4.4	0
ļ	38-40	10-25		3.5-4.4	0
	40-60	1.0-2.0		3.5-6.5	0
 61A:			 	 	
Bowstring	0-38	140-180	 	5.6-8.4	0
i	38-47	1.0-3.0	i	5.6-8.4	0
į	47-80	140-180	i	5.6-8.4	0
165A:	0 2		0 155	 3.5-6.0	
Newson	0-3 3-8		60-155 1.0-7.0	3.5-6.0	0 0
ļ	8-16		1.0-7.0	3.5-6.0	0
i	16-22		1.0-7.0	3.5-6.0	0
i I	22-60	0.0-4.0		4.5-6.5	0
į		į	j	ĺ	İ
Meehan	0 - 4		2.0-15	3.5-7.3	0
	4-29		1.0-8.0	3.5-6.5	0
	29-60		0.0-4.0	3.5-7.3	0
 69E:			 	 	
Bigisland	0-3	3.0-9.0		5.6-7.3	0
i	3-13	2.0-7.0	i	5.6-7.3	0
į	13-25	2.0-7.0	i	5.6-7.3	0
I	25-47	2.0-7.0		5.6-7.3	0
ļ	47-56	2.0-7.0		5.6-7.3	0
	56-80	3.0-19		6.1-7.3	0
Milaca	0 - 4		 5.0-18	 5.1-6.5	 0
milaca	4-13	3.0-11		5.1-6.5	0
i	13-17	3.0-11	l	5.1-6.5	0
i	17-43	4.0-11		5.1-6.5	0
į	43-80	2.0-10		5.6-6.5	0-5
171B:					
Dairyland	0-1	120-170	 	5.1-7.3	
	1-7 7-14	3.0-10 1.0-9.0	I	5.1-7.3	
ļ.	14-36	1.0-3.0		5.1-6.5	
i	36-49	1.0-8.0		5.1-6.5	
	49-80	3.0-15		5.1-7.8	0
į			ĺ		
Emmert	0-1	2.0-11		5.1-6.5	0
	1-5	1.0-8.0	:	5.1-7.3	:
	5-24 24-60	1.0-7.0	 	5.1-7.3	0
	2 1 -00	1.0-/.0	, 	 J.1-/.8	0
171C:				' 	
Dairyland	0-1	120-170		5.1-7.3	j
į	1-7	3.0-10	i	5.1-7.3	0
	7-14	1.0-9.0		5.1-6.5	0
	14-36	'		5.1-6.5	0
	36-49	1.0-8.0		5.1-6.5	0
	49-80	3.0-15		5.1-7.8	0

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	'	Effective cation- exchange		Calcium carbon- ate
		<u> </u>	capacity	<u> </u>	<u> </u>
	In	meq/100 g	meq/100 g	pH	Pct
471C:			 	 	
Emmert	0-1	2.0-9.0	i	5.1-6.5	0
	1-5	1.0-8.0		5.1-7.3	0
	5-24	1.0-7.0		5.1-7.3	0
	24-60	1.0-7.0		5.1-7.8	0
472A:			 	 	
Rockmarsh	0-1	80-120	i	5.1-7.3	j
	1-8	5.0-22		5.1-7.3	0
	8-23	1.0-9.0		5.1-7.3	0
	23-46	10-25		5.1-7.3	0
	46-80	3.0-14		5.6-7.3	0
Clemens	0-2	60-160	 	 5.1-7.3	
	2-7	6.0-15		5.1-7.3	0
	7-10	2.0-15	i	5.1-7.3	j
j	10-13	2.0-15		5.1-7.3	
	13-32	2.0-11		5.1-7.3	0
	32-46	2.0-11		5.1-7.3	0
	46-80	1.0-6.0		6.1-7.3	0
473A:			 	<u> </u> 	
Dairyland	0-1	120-170		5.1-7.3	
-	1-7	3.0-10	i	5.1-7.3	0
	7-14	1.0-9.0		5.1-6.5	0
	14-36	1.0-8.0		5.1-6.5	0
	36-49	1.0-8.0		5.1-6.5	0
	49-80	3.0-15		5.1-7.8	0
Skog	0-1	60-160		5.1-7.3	0
i	1-6	3.0-13	i	5.1-7.3	0
	6-11	2.0-11		5.1-7.3	0
	11-27	1.0-7.0		5.1-7.3	0
	27-38	1.0-7.0		5.1-7.3	0
	38-80	1.0-7.0	 	5.6-6.5	0
484A:					
Greenwood	0-6	i	80-120	3.5-4.5	0
	6-60		150-200	3.5-4.5	0
Beseman	0-36		 50-150	 3.5-4.4	0
beseman	36-60	3.0-15	30-130	3.5-7.3	0
			<u> </u>		i
485C:					
Lupton	0-65	160-190		4.5-7.8	0
Tawas	0-31	160-190	 	 4.5-7.8	0
14#45		1.0-7.0		5.6-8.4	1
		İ	j		j
495B:					
Karlsborg		2.0-10		4.5-6.5	1
	9-28	2.0-10	 	4.5-6.5	
		1.0-5.0	 	4.5-6.5	1
Grettum	0-3		2.0-15	3.5-7.3	1
	3-32	1	1.0-10	3.5-7.3	1
	32-75	1	1.0-10	5.1-7.3	1
	/5-80	1.0-9.0		5.1-7.3	0

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth		Effective cation- exchange capacity		Calcium carbon- ate
	In	meq/100 g	meq/100 g	рН	Pct
495B:			 	 	
Perida	0-9	2.0-10	 	3.5-7.3	0
	9-43	2.0-10		3.5-7.3	0
i	43-45	2.0-10	i	3.5-7.3	0
į	45-60	12-65	i	3.5-7.8	0
į	60-74	12-65	i	3.5-7.8	0
į	74-80	1.0-9.0		4.5-7.3	0
		!	!		
195C:					
Karlsborg	0-9	2.0-10		4.5-6.5	0
l I	9-28	2.0-10		4.5-6.5	0
ļ	28-48 48-80	12-65	 	4.5-6.5	0
· ·	40-00	1.0-5.0	 	4.5-6.5	0
Grettum	0-3		2.0-15	3.5-7.3	0
	3-32		1.0-10	3.5-7.3	0
 	32-75		1.0-10	5.1-7.3	0
ľ	75-80	1.0-9.0		5.1-7.3	0
i		İ	İ		i
Perida	0-9	2.0-10		3.5-7.3	0
	9-43	2.0-10	i	3.5-7.3	0
İ	43-45	2.0-10		3.5-7.3	0
I	45-60	12-65		3.5-7.8	0
I	60-74	12-65		3.5-7.8	0
I	74-80	1.0-9.0		4.5-7.3	0
		!	!		
495D:					
Karlsborg	0-9	2.0-10		4.5-6.5	0
ļ	9-28	2.0-10		4.5-6.5	0
ļ	28-48 48-80	12-65		4.5-6.5	0
	48-80	1.0-5.0		4.5-6.5	0
Grettum	0-3		2.0-15	3.5-7.3	0
	3-32		1.0-10	3.5-7.3	0
i	32-75		1.0-10	5.1-7.3	0
i	75-80	1.0-9.0		5.1-7.3	0
i		İ	İ		i
Perida	0-9	2.0-10	i	3.5-7.3	0
I	9-43	2.0-10		3.5-7.3	0
I	43-45	2.0-10		3.5-7.3	0
I	45-60	12-65		3.5-7.8	0
ļ	60-74	12-65		3.5-7.8	0
!	74-80	1.0-9.0		4.5-7.3	0
10.55					
496B:					
Karlsborg	0-9	2.0-10		4.5-6.5	0
l i	9-28	2.0-10	 	4.5-6.5	:
ļ	28-48 48-80	1.0-5.0	 	4.5-6.5	1
ļ.	40-00	1 1.0-3.0	 	4.5-0.5	0
196C:			! 	! 	
Karlsborg	0-9	2.0-10	 	4.5-6.5	0
	9-28	2.0-10		4.5-6.5	
	28-48	12-65		4.5-6.5	,
Ï	48-80	1.0-5.0		4.5-6.5	1
į		İ			į
496D:					
Karlsborg	0 - 9	2.0-10	i	4.5-6.5	0
i	9-28	2.0-10	i	4.5-6.5	0
	28-48	12-65		4.5-6.5	1

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation-	Effective cation-	:	Calcium
		capacity	exchange		ate
		// // // // // // // // // // // // //	capacity		
	In	meq/100 g	meq/100 g	pH	Pct
497A:					
Meenon	0-9	2.0-10	i	4.5-7.3	0
	9-28	1.0-10		4.5-7.3	0
	28-41	10-70		3.5-7.8	0
	41-80	0.0-7.0		4.5-6.5	0
521A:		 	 	 	
Dody	0-3	40-100		4.5-7.3	0
j	3-9	6.0-50		4.5-7.3	0
	9-20	1.0-15		4.5-7.3	0
	20-23	1.0-15		4.5-7.3	0
	23-47	10-65		4.5-6.5	0
	47-58 58-80	1.0-15	 	4.5-6.5	0
	30-00	1.0-15	 	4.5-6.5	0
523A:		! 	! 	! 	
Nokasippi	0-6	150-230	i	4.5-6.5	0
	6-15	1.0-7.0		4.5-6.5	0
	15-22	1.0-7.0		4.5-6.5	0
	22-31	1.0-11		5.1-7.3	0
	31-45	2.0-10		5.1-7.3	0
	45-60	2.0-10	 	5.1-7.3	0
529B:			 	 	
Perida	0-9	2.0-10	i	4.5-6.5	0
	9-43	2.0-10		3.5-7.3	0
	43-45	2.0-10		3.5-7.3	0
	45-60	12-65		3.5-7.8	0
	60-74 74-80	12-65 1.0-9.0	 	3.5-7.8	0 0
	74-00	1.0-9.0	 	4.5-7.5	0
531A:			<u> </u>		İ
Stengel	0-4	3.0-10		4.5-7.3	0
	4-20	1.0-10		4.5-7.3	0
	20-46	1.0-10		4.5-7.3	0
	46-50	1.0-10		4.5-7.3	0
	50-76 76-80	10-70 0.0-7.0	 	3.5-7.8	0 0
	76-80	0.0-7.0	 	4.5-7.5	0
542B:			<u> </u>		İ
Haugen, very stony	0-4	3.0-17		4.5-6.5	0
	4-15	1.0-15		4.5-6.0	0
	15-23	1.0-15		4.5-6.0	0
	23-35	1.0-15		4.5-6.0	0
	35-49 49-79	1.0-15		5.6-6.5	0
	79-80	1.0-15	 	5.6-6.5	0
	, , , = 00			3.0-0.3	
Haugen	0-7	3.0-17	·	4.5-6.5	0
	7-15	1.0-15		4.5-6.0	0
	15-23	1.0-15		4.5-6.0	0
	23-35	1.0-15		4.5-6.0	0
	35-49	1.0-15		5.6-6.5	0
	49-79	1.0-15 1.0-15	 	5.6-6.5	0
	79-80	1.0-13	ı	3.0-0.5	0

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation- exchange capacity	exchange	Soil reaction	Calcium carbon- ate
	T	/100 -	meg/100 g		 D=+
	In	med/100 g	med/100 g	pH 	Pct
542C:		İ	İ	ĺ	İ
Haugen, very stony	0 - 4	3.0-17		4.5-6.5	0
	4-15	1.0-15		4.5-6.0	0
	15-23 23-35	1.0-15	 	4.5-6.0	0
	35-49	1.0-15	 	5.6-6.5	0
	49-79	1.0-15	l	5.6-6.5	0
	79-80	1.0-15		5.6-6.5	0
Haugen	0-7	3.0-17	 	 4.5-6.5	 0
naagen	7-15	1.0-15	 	4.5-6.0	0
	15-23	1.0-15		4.5-6.0	0
İ	23-35	1.0-15		4.5-6.0	0
	35-49	1.0-15	i	5.6-6.5	0
	49-79	1.0-15		5.6-6.5	0
	79-80	1.0-15		5.6-6.5	0
544F:			 	 	
Menahga	0-1		80-120	4.5-5.5	
	1-2	1.0-8.0		4.5-5.5	0
	2-25		2.0-4.0	4.5-5.5	0
	25-80	0.0-2.0	 	5.1-7.3	0
Mahtomedi	0-5	2.0-11		5.1-6.5	0
	5-8	0.0-6.0		5.1-6.5	0
	8-15	0.0-6.0		5.1-6.5	0
	15-30	0.0-6.0		5.1-6.5	0
	30-60	0.0-6.0	 	5.1-7.8	0
553B:					İ
Branstad	0-9	7.0-16		5.1-7.8	0
	9-14	6.0-17		5.1-7.8	0
	14-20 20-45	7.0-19		5.1-7.8	0
	45-55	7.0-19 7.0-19	 	5.1-7.8 5.1-7.8	0
	55-68	7.0-19	l	6.6-8.4	0
	68-80	7.0-19		7.4-8.4	1-10
553C:			 	l I	
Branstad	0-9	7.0-16	 	 5.1-7.8	0
j	9-14	6.0-17		5.1-7.8	0
	14-20	7.0-19		5.1-7.8	0
	20-45			5.1-7.8	0
	45-55	'		5.1-7.8	0
	55-68 68-80	'	 	6.6-8.4 7.4-8.4	0 1-10
	08-80	7.0-13		7.1-0.1	1-10
553D:					
Branstad	0-9 9-14	7.0-16 6.0-17		5.1-7.8	0
	14-20	1	 	5.1-7.8 5.1-7.8	0 0
	20-45		 	5.1-7.8	0
	45-55		 	5.1-7.8	0
	55-68			6.6-8.4	0
	68-80	7.0-19		7.4-8.4	1-10
555A:			 	 	
Fordum	0 - 6	10-45		4.5-8.4	0
	6-18	3.0-20		4.5-8.4	0
	18-30	3.0-20		4.5-8.4	0
	30-60	2.0-6.0		5.6-8.4	0

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	exchange capacity	exchange	Soil reaction 	Calcium carbon- ate
	In	·	meq/100 g	рн	 Pct
				_	į
557B: Shawano	0-2	2.0-4.0	 	 4.5-7.3	
	2-4	1.0-3.0		4.5-6.5	
į	4-26	1.0-3.0	i	4.5-6.5	j
	26-60	1.0-3.0		5.6-7.8	
557C:			 		
Shawano	0-2	2.0-4.0	i	4.5-7.3	j
	2-4	1.0-3.0		4.5-6.5	
	4-26 26-60	1.0-3.0	 	4.5-6.5	
	26-60	1.0-3.0	 	5.6-7.8	
557D:		į	į	ĺ	į
Shawano	0-2	2.0-4.0		4.5-7.3	
	2-4 4-26	1.0-3.0	 	4.5-6.5	
	26-60	1.0-3.0		5.6-7.8	
j		İ	İ		İ
586A:	0 0	 5.0-10	 		
Chelmo	0-9 9-24	10-65	 	5.1-7.3	0
	24-34	1.0-15	 	4.5-6.5	0
İ	34-80	1.0-15		4.5-6.5	0
600A: Haplosaprists.		 	 	 	
Psammaquents.			 	 	
615B:					İ
Cress	0-3	2.0-20		4.5-7.3	0
	3-15 15-31	1.0-15	 0.0-7.0	4.5-6.0	0
	31-36		0.0-7.0	4.5-6.0	0
İ	36-60	0.0-6.0		4.5-6.5	0
615C:			 	 	
Cress	0-3	2.0-20		4.5-7.3	0
İ	3-15	1.0-15		4.5-6.0	0
	15-31		0.0-7.0	4.5-6.0	0
	31-36 36-60	0.0-6.0	0.0-7.0	4.5-6.0	0 0
	36-60	0.0-6.0	 	4.5-6.5	0
615D:		į	į		į
Cress	0-3	2.0-20		4.5-7.3	:
	3-15 15-31	1	 0.0-7.0	4.5-6.0	0
	31-36	1	1	4.5-6.0	1
		0.0-6.0		4.5-6.5	0
6200.			 	 	
620C: Lundeen	0-3	3.0-19	 	 4.5-5.5	0
		3.0-17		4.5-5.5	0
j	16-33	2.0-15	i	4.5-5.5	0
	33-80				
Haustrup	0 - 4	3.0-19	 	 3.5-6.0	0
-	4-16	3.0-17		3.5-6.0	0
į	16-80				į
Rock outcrop.		 	 	 	

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation- exchange capacity	1	Soil reaction	Calcium carbon-
			capacity		
	In	meq/100 g	meq/100 g	рН	Pct
621A: Bjorkland	0-2	130-180	 	 4.5-7.3	0
Bjorkrand	2-8	60-160		4.5-7.3	0
	8-14	1.0-9.0		4.5-6.0	0
İ	14-25	1.0-9.0		4.5-6.0	0
	25-34	1.0-9.0		5.1-6.5	0
j	34-38	25-41		5.1-9.0	0
	38-80	25-41		7.9-9.0	5-15
623A:	0 5	100 155	 		0
Capitola	0-5 5-7	100-155 8.0-35	 	4.5-7.3	0 0
	7-22	3.0-15	 	4.5-7.3	0
	22-33	2.0-15	 	4.5-7.3	0
	33-60	1.0-10		5.1-7.8	0
İ		İ	İ		i
624A:		j	İ	İ	j
Ossmer	0 - 4	6.0-20		4.5-7.3	0
	4-6	1.0-15		4.5-6.5	0
	6-11	1.0-15		4.5-6.5	0
	11-26	1.0-15		4.5-6.5	0
	26-34	1.0-15		4.5-6.5	0
	34-38	1.0-15		4.5-6.5	0
	38-60	0.0-6.0		4.5-6.5	0
631A:		 	 	 	
Giese	0-1	100-155	l 	4.5-6.0	0
01000	1-6	8.0-35		4.5-6.0	0
	6-11	3.0-15		4.5-6.0	0
	11-24	3.0-15		5.1-6.5	0
İ	24-30	3.0-15		5.1-6.5	0
	30-36	2.0-15		5.1-6.5	0
j	36-70	2.0-15		5.6-7.3	0
	70-80	1.0-10		5.6-7.3	0
632A:					
Aftad	0-10	3.0-10		4.5-7.3	0
	10-29 29-36	2.0-10	 	4.5-6.5	0
	36-41	2.0-15	 	4.5-6.5	0
	41-60	1.0-10	 	5.1-6.5	0
	00		 		
632B:		İ	İ		i
Aftad	0-10	3.0-10		4.5-7.3	0
	10-29	2.0-10		4.5-6.5	0
		2.0-15		4.5-6.5	0
	36-41	1		4.5-6.5	0
	41-60	1.0-10		5.1-6.5	0
6229			 	 	
632C: Aftad	0-10	3.0-10	 	 4.5-7.3	0
ALCAU		2.0-10	 	4.5-7.3	0
	29-36	'	 	4.5-6.5	0
	36-41	1		4.5-6.5	0
	41-60	1		5.1-6.5	0
		İ			İ
634C:					
Drylanding	0 - 4	6.0-22		5.6-7.3	0
	4-12	4.0-19		5.6-7.3	0
l l	12-80	i		i	

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	exchange capacity	Effective cation- exchange capacity		Calcium carbon- ate
	In	·	meq/100 g	рН	Pct
6240.				 	
634C: Beartree	0-1		 	5.6-7.3	
	1-4			5.6-7.3	
İ	4-16	i	i	5.6-7.3	j
	16-80				
Rock outcrop.					
635C:			 	 	
Drylanding	0-4	6.0-22		5.6-7.3	0
	4-12	4.0-19		5.6-7.3	0
	12-80				
Beartree	0-1		 	 5.6-7.3	
2002020	1-4			5.6-7.3	
	4-16	i		5.6-7.3	
İ	16-80				i
Rock outcrop.			 		
648B:			 	 	
Sconsin	0-4	8.3-13	 	4.5-7.3	0
	4-5	4.6-12		4.5-6.5	0
İ	5-10	4.6-12		4.5-6.5	0
	10-18	4.6-12	i	4.5-6.5	0
	18-27	4.6-12		4.5-6.5	0
	27-34	5.5-14		4.5-6.5	0
	34-38	4.8-12		4.5-6.5	0
	38-60	1.0-5.5	 	4.5-6.5	0
669D:					
Fremstadt, stony	0 - 5	3.0-12		4.5-7.3	0
	5-33	2.0-10		4.5-6.5	0
	33-37	1.0-10		4.5-6.5	0
	37-45	1.0-10		4.5-6.5	0
	45-70 70-80	1.0-10	 	5.6-6.5	0
	70-80	1.0-10	 	3.0-0.3	0
Pomroy	0-3	2.0-10		5.1-6.5	0
_	3-30	1.0-9.0	i	5.1-6.5	0
	30-45	4.0-13		5.1-6.5	0
	45-80	4.0-13	 	5.1-6.5	0
671B:					İ
Spoonerhill, stony		2.0-15		4.5-7.3	0
	3-12	0.0-15		4.5-6.5	0
	12-16			4.5-6.5	0
	16-34 34-46	1	 	5.1-6.5	0
	46-80	1	 	5.6-6.5	0
			İ		İ
Spoonerhill	0-3	2.0-15		4.5-7.3	0
	3-12	0.0-15		4.5-6.5	0
	12-16	1		4.5-6.5	0
	16-34 34-46	1	 	5.1-6.5	0
	46-80	1	 	5.6-6.5	0
				, 	
706A:		İ	İ		İ
Winterfield	0-7	2.0-15		5.6-7.8	0
	7-60	1.0-5.0		5.6-8.4	0

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	exchange	Effective cation-		1
		capacity	exchange capacity	 	ate
	In	·	meq/100 g		Pct
İ		İ	İ	İ	İ
706A:					
Totagatic	0-4 4-8	3.0-10 1.0-3.0	 	5.1-6.5 4.5-6.5	0 0
	8-17	1.0-3.0		4.5-6.5	0
	17-28	1.0-3.0		4.5-6.5	0
İ	28-46	1.0-3.0		4.5-6.5	0
	46-70	1.0-3.0		4.5-6.5	0
	70-80	1.0-3.0		4.5-6.5	0
715A:			 	 	
Mora	0 - 4		5.0-18	5.1-6.5	0
İ	4-9	3.0-11	i	5.1-6.5	0
	9-14	3.0-11		5.1-6.5	0
	14-36	4.0-11		5.1-6.5	0
	36-46 46-80	2.0-10	 	5.6-6.5	0 0 - 5
	40-00	2.0-10	 	5.0-0.5	0-5
717B:		İ			İ
Milaca	0 - 4		5.0-18	5.1-6.5	0
	4-13	3.0-11		5.1-6.5	0
	13-17	3.0-11		5.1-6.5	0
	17-43 43-80	4.0-11	 	5.1-6.5	0 0-5
	43-00	2.0-10		3.0-0.3	0-3
717C:		j	j	j	į
Milaca	0 - 4		5.0-18	5.1-6.5	0
	4-13	3.0-11		5.1-6.5	0
	13-17 17-43	3.0-11	 	5.1-6.5	0 0
	43-80	2.0-10		5.6-6.5	0-5
720F:					
Haustrup	0 - 4	3.0-19		3.5-6.0	0
	4-16 16-80	3.0-17	 	3.5-6.0	0
	10-80		 	 	
Lundeen	0-3	3.0-19		4.5-5.5	0
I	3-16	3.0-17		4.5-5.5	0
	16-33	2.0-15		4.5-5.5	0
	33-80				
Rock outcrop.			 	 	
		İ			İ
726B:					
Sissabagama	0-10	!	2.0-15	4.5-7.3	0
	10-31	1	1.0-10	4.5-6.5	0
	31-45 45-80		 	4.5-6.5	0
	13-00	2.0-4.0		3.1=7.3 	
742B:		į	İ	İ	j
Milaca	0 - 4		5.0-18	5.1-6.5	0
	4-13	1		5.1-6.5	0
	13-17 17-43		 	5.1-6.5	0
		2.0-10		5.6-6.5	0-5
		i	i İ	i	i -

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation- exchange capacity	cation-		Calcium carbon- ate
	 	·	capacity	 	1 2
	In	meq/100 g	meq/100 g 	pH 	Pct
742C:					İ
Milaca	0-4		5.0-18	5.1-6.5	0
	4-13	3.0-11		5.1-6.5	0
	13-17 17-43	3.0-11	 	5.1-6.5	0
	43-80	2.0-10		5.6-6.5	0-5
742D:		 	 	 	
Milaca	0-4		5.0-18	5.1-6.5	0
	4-13	3.0-11		5.1-6.5	0
	13-17	3.0-11	 	5.1-6.5	0
	17-43 43-80	2.0-10		5.6-6.5	0-5
755A:		 	 	 	
Moppet	0-4		6.0-20	3.6-6.0	0
	4-10		3.0-15	3.6-6.0	0
	10-39		3.0-15	3.6-6.0	0
	39-60 		1.0-10 	3.6-6.5 	0
Fordum	0-6	10-45		4.5-8.4	0
	6-18	3.0-20		4.5-8.4	0
	18-30	3.0-20		4.5-8.4	0
	30-60	2.0-6.0	 	5.6-8.4 	0
771A: Lenroot	 0-4	 2.0-11	 	 5.1-6.5	0
пентоос	4-8	0.0-6.0	l	5.1-6.5	0
	8-14	0.0-6.0		5.1-6.5	0
	14-21	0.0-6.0	i	5.1-6.5	0
	21-80	0.0-6.0		5.1-7.3	0
812B:					
Mora	0-4 4-9	3.0-11	5.0-18	5.1-6.5 5.1-6.5	0 0
	9-14	3.0-11	 	5.1-6.5	0
	14-36	4.0-11		5.1-6.5	0
	36-46	2.0-10	i	5.6-6.5	0
	46-80	2.0-10	 	5.6-6.5	0-5
825A:			<u> </u>		
Meehan	0-4		2.0-15	3.5-7.3	0
	4-29 29-60	:	0.0-4.0	3.5-6.5	
896A:			 	 	
Wurtsmith	0-6	i	2.0-15	3.5-7.3	0
	6-33		1.0-2.0		
	92-60		1.0-2.0	3.5-7.3	0
980A: Soderbeck	0.4			 E 6 7 3	
Soderbeck		9.0-20		5.6-7.3	1
		2.0-7.0		5.6-7.3	1
		1.0-3.0		5.6-7.3	1
	42-55		i		i
	55-80				

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name 	Depth	Cation- exchange capacity	!	Soil reaction 	Calcium carbon- ate
	In	meg/100 g	meq/100 g	рн	Pct
ļ					
1070C:					
Fremstadt	0-5	3.0-15		4.5-7.3	0
	5-33	2.0-10		4.5-6.5	0
	33-37	1.0-10		4.5-6.5	0
	37-45	1.0-10		4.5-6.5	0
l I	45-70	1.0-10		5.6-6.5	0
	70-80	1.0-10		5.6-6.5	0
Cress	0-3	2.0-20	 	4.5-7.3	0
	3-15	1.0-15	 	4.5-6.0	0
i	15-31		0.0-7.0	4.5-6.0	0
i	31-36		0.0-7.0	4.5-6.0	0
i	36-60	0.0-6.0		4.5-6.5	0
į		İ	İ	İ	İ
1070D:		İ	İ	İ	į
Fremstadt	0-5	3.0-15		4.5-7.3	0
I	5-33	2.0-10		4.5-6.5	0
I	33-37	1.0-10		4.5-6.5	0
	37-45	1.0-10		4.5-6.5	0
	45-70	1.0-10		5.6-6.5	0
	70-80	1.0-10		5.6-6.5	0
_					
Cress	0-3	2.0-20		4.5-7.3	0
l i	3-15	1.0-15		4.5-6.0	0
ļ	15-31 31-36		0.0-7.0	4.5-6.0	0 0
· ·	36-60	0.0-6.0	0.0-7.0	4.5-6.5	0
i	30-00	0.0-0.0	i	4.5-0.5	0
1080B:			 	! 	
Spoonerhill	0-3	2.0-15		4.5-7.3	0
1	3-12	0.0-15	i	4.5-6.5	0
i	12-16	0.0-15	i	4.5-6.5	0
į	16-34	0.0-15	j	5.1-6.5	0
İ	34-46	0.0-15		5.6-6.5	0
I	46-80	0.0-15		5.6-6.5	0
I					
Spoonerhill, stony	0-3	2.0-15		4.5-7.3	0
ļ	3-12	0.0-15		4.5-6.5	0
!	12-16	0.0-15		4.5-6.5	0
!	16-34	0.0-15		5.1-6.5	0
ļ	34-46	0.0-15		5.6-6.5	0
l l	46-80	0.0-15		5.6-6.5	0
Cress	0.2	2.0-20	l I	1 = 7 2	0
Cress		1.0-15		4.5-7.3	1
i i	15-31		0.0-7.0		
i	31-36	1	1	4.5-6.0	1
i		0.0-6.0		4.5-6.5	
ľ					į -
2002. Udorthents, earthen dams		 	 -		
2015. Pits		 	 	 	
 2050. Landfill		 	 -	 	

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth		Effective cation- exchange capacity		Calcium carbon- ate
	In	meq/100 g	meq/100 g	рН	Pct
					!
3011A: Barronett	0-9	7.0-30	 	 4.5-7.3	0
Barronett	9-16	1.0-15	 	4.5-7.3	0
	16-34	4.0-20	l	4.5-6.5	0
	34-60	2.0-15	2.0-25	5.1-7.3	0
İ		İ	j	İ	į
3082E:					
Braham	8 - 0	2.0-13		5.1-6.5	0
	8-28	2.0-11		5.1-6.5	0
	28-42	14-22		5.1-6.5	0
	42-48 48-80	8.0-18	 	5.1-7.3	0 3-5
	40-00	0.0-10	 	/.1-0.1 	3-3
Shawano	0-2	2.0-4.0		4.5-7.3	
	2-4	1.0-3.0		4.5-6.5	
	4-26	1.0-3.0		4.5-6.5	
İ	26-60	1.0-3.0		5.6-7.8	
I					
3114A:		!	!		
Saprists	0-80	140-200		4.5-7.3	0
	0 0				
Aquents	0-3		60-155	3.5-6.0	0
	3-8 8-16		1.0-7.0	3.5-6.0	0
	16-22		1.0-7.0	3.5-6.0	0
	22-60	0.0-4.0		4.5-6.5	0
Aquepts	0 - 4	120-190		4.5-7.8	0
	4-15	2.0-20	i	4.5-7.8	0
I	15-28	1.0-15		4.5-6.5	0
	28-60	0.0-6.0		4.5-6.5	0
21052				İ	
3125A: Meehan	0-5		 2.0-15	 3.5-7.3	0
Meenan	5-8		1.0-8.0	3.5-6.5	0
	8-28		1.0-8.0	3.5-6.5	0
	28-60		0.0-4.0	3.5-7.3	0
i		İ	İ		İ
3126A:		İ	j		j
Wurtsmith	0-9		2.0-14	3.5-5.5	0
I	9-37		1.0-2.0	3.5-6.0	0
	37-60		1.0-2.0	3.5-7.3	0
3312B:				 	
Glendenning, very	0-5	3.0-17	l 	5.1-7.3	0
stony	0-5 5-15	1	 	5.1-7.3	1
	15-20	!	 	5.1-6.5	1
	20-26	1		5.1-6.5	
	26-40	1		5.1-6.5	0
	40-65			5.1-6.5	1
į	65-80	1.0-15	i	6.1-7.3	0
İ					
Glendenning	0 - 7	3.0-17		5.1-7.3	0
	7-15	1.0-15		5.1-6.0	:
	15-20	1.0-15		5.1-6.5	0
	20-26	1		5.1-6.5	
	26-40	1		5.1-6.5	
	40-65	1.0-15	 	5.1-6.5	!
	65-80	1.0-15		0.1-/.3	0

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	Cation- exchange	Effective cation-	Soil reaction	Calcium
		capacity	exchange capacity	 	ate
	In	·	meq/100 g	pН	Pct
3336A:			 	 	
Fenander	0-9	5.0-10	i	5.1-7.3	0
İ	9-15	2.0-15		5.1-7.3	0
Į.	15-27	2.0-15		5.1-7.3	0
	27-33 33-80	2.0-15	 	5.1-7.3 5.1-7.3	0 0
3403A:			 	 	
Loxley	0-13		50-100	3.5-4.4	0
	13-60		50-120 	3.5-4.4	0
Beseman	0-36		50-150	3.5-4.4	0
	36-60	3.0-15		3.5-7.3	0
Dawson	0-8		80-120	3.5-4.4	0
	8-38		150-230	3.5-4.4	0
	38-40	10-25		3.5-4.4	0
	40-60	1.0-2.0	 	3.5-6.5	0
3429B: Lara	0-10	3.0-9.0	 	 5.1-7.3	0
	10-35	1.0-6.0	 	5.1-7.3	0
į	35-42	1.0-5.0	i	5.1-7.3	0
I	42-55	25-40		5.1-7.3	0
	55-75 75-80	25-40	 	5.1-7.3	0 0
24000		į	į	į	į
3429C: Lara	0-10	3.0-9.0	 	 5.1-7.3	0
I	10-35	1.0-6.0		5.1-7.3	0
	35-42	1.0-5.0		5.1-7.3	0
l l	42-55 55-75	25-40	 	5.1-7.3	0
	75-80	25-40		5.1-7.3	0
3446A:			 	 	
Newson	0-3		60-155	3.5-6.0	0
į	3-8	j	1.0-7.0	3.5-6.0	0
	8-16		1.0-7.0	3.5-6.0	0
	16-22 22-60	0.0-4.0	1.0-7.0	3.5-6.0 4.5-6.5	0 0
3448B:			 -	 -	İ
Grettum	0-3		2.0-15	3.5-7.3	0
	3-32		1.0-10	3.5-7.3	0
į	32-75	j	1.0-10	5.1-7.3	0
	75-80	1.0-9.0		5.1-7.3	0
3448C:					
Grettum	0-3		2.0-15	3.5-7.3	0
l l	3-32 32-75		1.0-10 1.0-10	3.5-7.3	0
	75-80	1.0-9.0		5.1-7.3	0
3510B:			 	 	
Pomroy	0-3	2.0-10		5.1-6.5	0
į	3-30	1.0-9.0		5.1-6.5	0
	30-45	1		5.1-6.5	0
	45-80	4.0-13		5.1-6.5	0

Table 24.--Chemical Properties of the Soils--Continued

Map symbol and soil name	Depth	exchange capacity	Effective cation- exchange capacity		Calcium carbon- ate
	In	·	meq/100 g	pH	Pct
25100					
3510B: Fremstadt	0-5	3.0-12	 	 4.5-7.3	0
i	5-33	2.0-10		4.5-6.5	0
I	33-37	1.0-10		4.5-6.5	0
	37-45	1.0-10		4.5-6.5	0
	45-70 70-80	1.0-10	 	5.6-6.5	0 0
Fremstadt, stony	0-5 5-33	3.0-12	 	4.5-7.3	0 0
	33-37	1.0-10	 	4.5-6.5	0
	37-45	1.0-10	 	4.5-6.5	0
i	45-70	1.0-10		5.6-6.5	0
	70-80	1.0-10		5.6-6.5	0
3510C:			 	 	
Pomroy	0-3	2.0-10		5.1-6.5	0
I	3-30	1.0-9.0		5.1-6.5	0
	30-45	4.0-13		5.1-6.5	0
	45-80	4.0-13	 	5.1-6.5	0
Fremstadt	0-5	3.0-12		4.5-7.3	0
İ	5-33	2.0-10		4.5-6.5	0
I	33-37	1.0-10		4.5-6.5	0
	37-45	1.0-10		4.5-6.5	0
	45-70 70-80	1.0-10	 	5.6-6.5	0 0
	, , ,				
Fremstadt, stony	0-5	3.0-12		4.5-7.3	0
	5-33	2.0-10	 	4.5-6.5	0
	33-37 37-45	1.0-10	 	4.5-6.5	0 0
	45-70	1.0-10	 	5.6-6.5	0
İ	70-80	1.0-10		5.6-6.5	0
3511A:			 	 	
Bushville	0-4	1.0-7.0	 	5.1-6.5	0
	4-21	1.0-4.0		5.1-6.5	0
İ	21-24	4.0-11		5.1-6.5	0
I	24-30	4.0-11		5.1-6.5	0
	30-45	3.0-10		5.1-7.3	0
	45-60	3.0-10	 	5.6-7.3 	0
3516A:		į			į
Slimlake	0-6			5.1-6.5	
	6-17	0.0-2.0	3.0-15	5.1-6.5	
		0.0-2.0	 	5.1-6.5	
		0.0-2.0		5.1-6.5	
3625A:			 	 	
J625A: Lino	0 - 7	1.0-10	 	 5.1-6.0	0
į	7-45	2.0-6.0		5.1-6.0	0
	45-60	1.0-3.0		5.1-6.5	0
3626A:			 	 	
Crex	0-1		1	3.5-6.0	
	1-7		1.0-20	3.5-6.0	
	7-40 40-71	0.0-4.0	0.0-7.0	3.5-6.0 5.1-7.3	
		0.0-4.0	 	5.1-7.3	0
	, 00	1 0.0-4.0	 I	1 2.1-7.3	

Table 24.--Chemical Properties of the Soils--Continued

Map symbol	Depth	Cation-	Effective	Soil	Calcium
and soil name		exchange	cation-	reaction	carbon-
		capacity	exchange		ate
			capacity		
	In	meq/100 g	meq/100 g	pН	Pct
			!		
3629B:					
Perida	0-9	2.0-10		3.5-7.3	0
	9-43	2.0-10		3.5-7.3	0
	43-45	2.0-10		3.5-7.3	0
	45-60	12-65		3.5-7.8	0
	60-74	12-65		3.5-7.8	0
	74-80	1.0-9.0		4.5-7.3	0
3636B:				 	
Plainbo	 0-4	3.0-9.0	l I	 3.5-7.3	
FIATIDO	4-13	1.0-6.0	 	3.5-6.5	
	13-32	1.0-6.0	 	3.5-6.5	
	32-75		 	3.5-0.5	
	75-80		l	l	
	75 00		! 	! 	
3636C:					
Plainbo	0-4	3.0-9.0		3.5-7.3	
	4-13	1.0-6.0		3.5-6.5	
	13-32	1.0-6.0		3.5-6.5	
	32-75				
	75-80				
M-W.					
Miscellaneous water			 	 	
W.			 	 	
Water			! 	! 	
		1	I 	I 	
	l	L	I	I	

Table 25.--Soil Moisture Status by Depth

(Depths of layers are in feet. Absence of an entry indicates that the feature is not a concern or that data were not estimated. See text for definitions of terms used in this table)

Map symbol and soil name	Hydro- logic group	January 	February 	March 	April 	May 	June	July 	August 	September	October	November	December
		1	1	1	1	1	1	1	1	1	İ	1	1
3A:	İ	İ	İ	İ	i	i	İ	İ	İ	i	İ	İ	i
Totagatic	A/D	0.0-2.0:	0.0-2.5:	0.0-1.0:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-2.0:	0.0-2.5:	0.0-1.5:	0.0-0.5:	0.0-6.7:	0.0-0.5:
		Moist	Moist	Moist	Wet	Wet	Moist	Moist	Moist	Moist	Moist	Wet	Moist
		2.0-6.7:	2.5-6.7:	1.0-6.7:			1.0-6.7:	2.0-6.7:	2.5-6.7:	1.5-6.7:	0.5-6.7:		0.0-6.7:
		Wet	Wet	Wet			Wet	Wet	Wet	Wet	Wet		Wet
Bowstring	A/D	0.0-2.0:	0.0-2.5:	0.0-1.0:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-2.0:	0.0-2.5:	0.0-1.5:	0.0-0.5:	0.0-6.7:	0.0-0.5:
	ĺ	Moist	Moist	Moist	Wet	Wet	Moist	Moist	Moist	Moist	Moist	Wet	Moist
	ĺ	2.0-6.7:	2.5-6.7:	1.0-6.7:			1.0-6.7:	2.0-6.7:	2.5-6.7:	1.5-6.7:	0.5-6.7:		0.0-6.7:
		Wet	Wet	Wet			Wet	Wet	Wet	Wet	Wet		Wet
Ausable	A/D	0.0-2.0:	0.0-2.5:	0.0-1.0:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-2.0:	0.0-2.5:	0.0-1.5:	0.0-0.5:	0.0-6.7:	0.0-0.5:
	İ	Moist	Moist	Moist	Wet	Wet	Moist	Moist	Moist	Moist	Moist	Wet	Moist
	ĺ	2.0-6.7:	2.5-6.7:	1.0-6.7:			1.0-6.7:	2.0-6.7:	2.5-6.7:	1.5-6.7:	0.5-6.7:		0.5-6.7:
		Wet	Wet	Wet			Wet	Wet	Wet	Wet	Wet		Wet
12A:													
Makwa	D	0.0-2.0:	0.0-2.5:	0.0-1.0:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-2.0:	0.0-2.5:	0.0-1.5:	0.0-0.5:	0.0-6.7:	0.0-0.5:
		Moist	Moist	Moist	Wet	Wet	Moist	Moist	Moist	Moist	Moist	Wet	Moist
		2.0-6.7:	2.5-6.7:	1.0-6.7:			1.0-6.7:	2.0-6.7:	2.5-6.7:	1.5-6.7:	0.5-6.7:		0.5-6.7:
		Wet	Wet	Wet			Wet	Wet	Wet	Wet	Wet		Wet
22A:	İ				İ						İ		İ
Comstock	C	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-0.5:	0.0-1.0:	0.0-2.5:	0.0-2.5:	0.0-4.0:	0.0-5.0:	0.0-2.0:	0.0-1.0:	0.0-2.0:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	ļ	2.5-3.0:	2.5-3.5:	2.5-5.0:	0.5-6.7:	1.0-6.7:	2.5-6.7:	2.5-6.7:	4.0-6.7:	5.0-6.7:	2.0-2.5:	1.0-2.5:	2.0-3.0:
		Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet
		3.0-6.7: Moist	3.5-6.7:	5.0-6.7:							2.5-5.0:	2.5-5.5:	3.0-6.0:
		Moist	Moist	Moist		ļ		-		-	Moist 5.0-6.7:	Moist 5.5-6.7:	Moist
											1	1	1
	1										Wet	Wet	Wet
27A:	į	į	į	į	į	į	į	į	į	į	į	į	į
Scott Lake	В	0.0-4.5:	0.0-5.5:	0.0-4.0:	0.0-2.5:	0.0-3.0:	0.0-4.5:	0.0-5.0:	0.0-5.5:	0.0-4.5:	0.0-4.0:	0.0-3.5:	0.0-4.0:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	!	4.5-6.7:	5.5-6.7:	4.0-6.7:	2.5-6.7:	3.0-6.7:	4.5-6.7:	5.0-6.7:	5.5-6.7:	4.5-6.7:	4.0-6.7:	3.5-6.7:	4.0-6.7:
		Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet

Map symbol and soil name	Hydro- logic group	January 	February	March 	April	May	June	July 	August	September	October 	November	Decembe			
BOIL Hame	group	1		<u> </u>	1	1	_ <u> </u>	1	1	<u> </u>	1	<u> </u>	1			
28B: Haugen, very	 	i i			į	į	İ	İ			į					
stony	C	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-4.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-4.5:			
	İ	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist			
	ĺ			2.0-6.0:	2.0-6.0:	3.0-6.0:	4.5-6.0:					4.0-6.0:	4.5-6.0:			
				Wet	Wet	Wet	Wet					Wet	Wet			
				6.0-6.7:	6.0-6.7:	6.0-6.7:	6.0-6.7:					6.0-6.7:	6.0-6.7:			
				Moist	Moist	Moist	Moist					Moist	Moist			
Haugen	 C	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-4.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-4.5:			
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist			
				2.0-6.0:	2.0-6.0:	3.0-6.0:	4.5-6.0:					4.0-6.0:	4.5-6.0:			
				Wet	Wet	Wet	Wet					Wet	Wet			
				6.0-6.7:	6.0-6.7:	6.0-6.7:	6.0-6.7:					6.0-6.7:	6.0-6.7:			
				Moist	Moist	Moist	Moist					Moist	Moist			
Rosholt, very																
stony	В	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:			
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist			
Rosholt	 B	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:			
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist			
28C:													1			
Haugen, very																
stony	В	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-4.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-4.5:			
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist			
				2.0-6.0:	2.0-6.0:	3.0-6.0:	4.5-6.0:					4.0-6.0:	4.5-6.0:			
				Wet	Wet	Wet	Wet					Wet	Wet			
				6.0-6.7:	6.0-6.7:	6.0-6.7:	6.0-6.7:					6.0-6.7:	6.0-6.7:			
				Moist	Moist	Moist	Moist					Moist	Moist			
Haugen	C	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-4.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-4.5:			
		Moist					2.0-6.0: Wet	2.0-6.0: Wet	3.0-6.0: Wet	4.5-6.0: Wet					4.0-6.0: Wet	4.5-6.0: Wet
				6.0-6.7:	6.0-6.7:	6.0-6.7:	6.0-6.7:					6.0-6.7:	6.0-6.7:			
				Moist	Moist	Moist	Moist					Moist	Moist			
Rosholt, very																
stony	 B	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:			
Promy	B	0.0-6./: Moist	0.0-6./: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6./: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6./: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7:			
		MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST			
Rosholt	В	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:			
	I .	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist			

Table 25.--Soil Moisture Status by Depth--Continued

Table 25.--Soil Moisture Status by Depth--Continued

Map symbol and soil name	Hydro- logic group	January 	February 	March 	April 	May	June	July 	August 	September	October 	November	Decembe
		i	i	i i	i	i	i	i	i	İ	i i	i	<u> </u>
38A:	į	į	j	İ	j	j	İ	i	j	İ	İ	i	İ
Rosholt	B 	0.0-6.7: Moist 	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
38B:	İ	i		i	i		i	i		İ	i	İ	
Rosholt	B	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
38C:	 	1					1						
Rosholt	 B 	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
38D:	 						-						
Rosholt	 B 	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
42D:	l I					}					1		
Amery	 B 	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
43B:	 		l I										
Antigo	 B	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
5	į	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
43C:						-							
Antigo	। в	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
	-	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
63A:						1							
Crystal Lake	 B	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-3.0:	0.0-3.5:	0.0-5.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-6.7:
	i -	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	İ		i	i	2.0-5.0:	3.0-6.7:	3.5-6.7:	5.5-6.7:		i	i	2.5-3.0:	
					Wet	Wet	Wet	Wet				Wet	
	 				5.0-6.7: Moist							3.0-6.7: Moist	
63B:	 												
Crystal Lake	B	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-3.0:	0.0-3.5:	0.0-5.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-6.7:
=	İ	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	İ	j	j	j	2.0-5.0:	3.0-6.7:	3.5-6.7:	5.5-6.7:	j	j	j	2.5-3.0:	j
					Wet	Wet	Wet	Wet				Wet	
	 	 			5.0-6.7: Moist							3.0-6.7: Moist	

Map symbol and soil name	Hydro- logic group	January 	February 	March 	April 	May 	June 	July 	August 	September	October 	November	Decembe
63C:													
Crystal Lake	l B	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-3.5:	0.0-5.0:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
01/2001 10:10	, - 	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	! 				2.0-5.0:	3.5-6.7:	5.0-6.7:						
	İ	i		i	Wet	Wet	Wet	i	i	İ	i	i	i
	<u> </u> 				5.0-6.7: Moist								j
64A:													
Totagatic	A/D	0.0-2.0:	0.0-2.5:	0.0-1.0:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-2.0:	0.0-2.5:	0.0-1.5:	0.0-0.5:	0.0-6.7:	0.0-0.5:
3	İ	Moist	Moist	Moist	Wet	Wet	Moist	Moist	Moist	Moist	Moist	Wet	Moist
	j	2.0-6.7:	2.5-6.7:	1.0-6.7:	j	i	1.0-6.7:	2.0-6.7:	2.5-6.7:	1.5-6.7:	0.5-6.7:	i	0.0-6.7:
	ĺ	Wet	Wet	Wet	į	Ì	Wet	Wet	Wet	Wet	Wet	į	Wet
Winterfield	 A/D	0.0-2.0:	0.0-2.0:	0.0-1.5:	0.0-0.5:	0.0-1.5:	0.0-2.0:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-3.0:	0.0-2.0:	0.0-2.0:
	ĺ	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
		2.0-6.7:	2.0-6.7:	1.5-6.7:	0.5-6.7:	1.5-6.7:	2.0-6.7:	2.0-6.7:	2.0-6.7:	3.0-6.7:	3.0-6.7:	2.0-6.7:	2.0-6.7:
		Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet
69C:	 												
Keweenaw	В	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
								1.0-6.7:	1.5-6.7:				
	 							Moist	Moist				
Sayner	 A	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
								1.0-6.7:	1.5-6.7:				
	 							Moist	Moist				
Vilas	 A	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
								1.0-6.7:	1.5-6.7:				
				!	ļ			Moist	Moist				
69E:	 					1							
Keweenaw	' в	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
	İ	Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
	İ	j	i	j	j		j	1.0-6.7:	1.5-6.7:	i	j	i	j
				1	1			Moist	Moist		1		

Moist

Moist

Dry

Moist

Moist

Moist

Moist

Moist

Moist

Dry

1.0-6.7: |1.5-6.7:

Sayner---- A

0.0-6.7: | 0.0-6.7: | 0.0-6.7:

Moist

Moist

Moist

Moist

Table 25.--Soil Moisture Status by Depth--Continued

Table 25.--Soil Moisture Status by Depth--Continued

	Hydro- logic group	January	February	March	April	May	June	July	August	September	October	November	December
69E:		 		 									
Vilas	A	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7:	0.0-1.5: Dry 1.5-6.7:	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
		 		 				Moist 	Moist				
82B:												1	
Cutaway	В	0.0-6.7:	1	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
					2.0-6.7:	2.0-6.7:	3.0-6.7:	0.0-5.1:	1.5-6.7:				
					Wet	Wet	Wet	Moist	Moist				
				 !				5.1-6.7: Wet		 			
Branstad	 в	 0.0-6.7:	0.0-6.7:	 0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-4.5:	0.0-6.7:	 0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-5.5:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
					2.0-6.7:	2.0-6.7:	3.0-6.7:	4.5-6.7:	i	i	j	4.0-6.7:	5.5-6.7:
		İ	į	į	Wet	Wet	Wet	Wet	į	į	į	Wet	Wet
82C:		 											
Cutaway	В	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
		 			2.0-6.7: Wet	2.0-6.7: Wet	3.0-6.7: Wet	0.0-5.1: Moist	1.5-6.7: Moist				
		 	j	i i		j	i	5.1-6.7: Wet		i			j
Branstad	 в	 0.0-6.7:	 0.0-6.7:	 0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	 0.0-4.5:	0.0-6.7:	 0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-5.5:
21411244	-	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
					2.0-6.7:	2.0-6.7:	3.0-6.7:	4.5-6.7:				4.0-6.7:	5.5-6.7:
					Wet	Wet	Wet	Wet				Wet	Wet
83A:		 		 									
Smestad	C	0.0-2.5:	0.0-3.0:	0.0-1.0:	0.0-0.5:	0.0-0.5:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-1.5:	0.0-2.0:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
		2.5-3.5:	3.0-3.5:	1.0-4.0:	0.5-6.7:	0.5-6.7:	1.5-4.5:				2.0-3.5:	1.5-3.5:	2.0-3.5:
		Wet	Wet	Wet	Wet	Wet	Wet				Wet	Wet	Wet
		3.5-6.7:	3.5-6.7:	4.0-6.7:			4.5-6.7:				3.5-6.7:	3.5-6.7:	3.5-6.7:
		Moist 	Moist	Moist			Moist				Moist	Moist	Moist
85B:				İ								İ	
Taylor	C	0.0-6.7:	1	0.0-2.0:	0.0-2.0:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
				1.5-2.0:	1.0-2.0:	1.5-2.0:							
			!	Wet	Wet	Wet	!	!	ļ	!	!	Ţ	ļ
				2.0-6.7:	2.0-6.7:	2.0-6.7:							
			1	Moist	Moist	Moist	1	1	1	1	1	1	1

	Hydro- logic	January	February	March	April	May	June	July	August	September	October	November	Decembe
soil name	group	i	i	i	i	ì	i	i	i	i	i	ì	
	J	İ	1	İ	i	i	i	<u> </u>	i	i	1	i	
85C:		i	İ	i	i	i	i	į	i	İ	İ	i	İ
Taylor	C	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
j		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
				1.5-2.0:	1.0-2.0:	1.5-2.0:							
		Į.		Wet	Wet	Wet							
				2.0-6.7:	2.0-6.7:	2.0-6.7:							
				Moist	Moist	Moist						1	
86A:		1				1						1	
Indus	C	0.0-2.5:	0.0-2.5:	0.0-2.0:	0.0-3.5:	0.0-3.5:	0.0-2.0:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-2.0:	0.0-3.5:	0.0-0.5
Indus		Moist	Moist	Moist	Wet	Wet	Moist	Moist	Moist	Moist	Moist	Wet	Moist
		2.5-3.5:	2.5-3.5:	2.0-3.5:	3.5-6.7:	3.5-6.7:	2.0-3.5:			2.5-3.5:	2.0-3.5:	3.5-6.7:	0.5-3.5:
		Wet	Wet	Wet	Moist	Moist	Wet	i	i	Wet	Wet	Moist	Wet
		3.5-6.7:	3.5-6.7:	3.5-6.7:	j	j	3.5-6.7:	j	j	3.5-6.7:	3.5-6.7:	j	3.5-6.7:
j		Moist	Moist	Moist	ĺ	ĺ	Moist	İ	İ	Moist	Moist	Ì	Moist
		[
Alango	D	0.0-1.5:	0.0-1.5:	0.0-1.5:	0.0-1.0:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.5:	0.0-1.5:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
		1.5-2.0:	1.5-2.0: Wet	1.5-2.0: Wet	1.0-3.0: Wet	1.0-3.0: Wet	1.5-3.0: Wet					1.5-2.0: Wet	1.5-2.0: Wet
		Wet 2.0-6.7:	wet 2.0-6.7:	wet 2.0-6.7:	Wet 3.0-6.7:	Wet 3.0-6.7:	Wet 3.0-6.7:					wet 2.0-6.7:	wet 2.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist					Moist	2.0-6.7:
			MOIDC		110150	110150			1	i	İ	Morbe	MOIDC
89A:		i	i	i	i	i	i	i	i	i	İ	i	i
Wildwood	D	0.0-1.0:	0.0-1.0:	0.0-0.5:	0.0-6.7:	0.0-6.7:	0.0-0.5:	0.0-0.5:	0.0-0.5:	0.0-0.5:	0.0-0.5:	0.0-0.5:	0.0-0.5:
j		Moist	Moist	Moist	Wet	Wet	Moist	Moist	Moist	Moist	Moist	Moist	Moist
		1.0-2.0:	1.0-2.0:	0.5-2.0:			0.5-3.5:	0.5-2.0:	0.5-2.0:	0.5-2.0:	0.5-2.0:	0.5-2.0:	0.5-2.0:
		Wet	Wet	Wet			Wet	Wet	Wet	Wet	Wet	Wet	Wet
		2.0-6.7:	2.0-6.7:	2.0-6.7:			3.5-6.7:	2.0-6.7:	2.0-6.7:	2.0-6.7:	2.0-6.7:	2.0-6.7:	2.0-6.7:
		Moist	Moist	Moist	-	-	Moist	Moist	Moist	Moist	Moist	Moist	Moist
96B:		l I	l I		l I			l I		l I	I	I	
Karlsborg	С	0.0-6.7:	0.0-6.7:	0.0-3.5:	0.0-1.5:	0.0-3.5:	0.0-3.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
11422029		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
				3.5-4.0:	1.5-4.0:	3.5-4.0:	3.5-4.0:	1.0-6.7:	1.5-6.7:				
		ì	İ	Wet	Wet	Wet	Wet	Moist	Moist	İ	İ	i	İ
j				4.0-6.7:	4.0-6.7:	4.0-6.7:	4.0-6.7:						
		[Moist	Moist	Moist	Moist						
			ļ		!	!	!		Ţ	!	ļ	!	
96C:	_												
Karlsborg	С	0.0-6.7:	0.0-6.7:	0.0-3.5:	0.0-1.5:	0.0-3.5:	0.0-3.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist 3.5-4.0:	Moist 1.5-4.0:	Moist 3.5-4.0:	Moist 3.5-4.0:	Dry 1.0-6.7:	Dry 1.5-6.7:	Moist	Moist	Moist	Moist
				3.5-4.0: Wet	1.5-4.0: Wet	3.5-4.0: Wet	3.5-4.0: Wet	1.0-6.7: Moist	1.5-6./: Moist				
		 		4.0-6.7:	4.0-6.7:	4.0-6.7:	4.0-6.7:	MOISC	MOISC				
		1		Moist	Moist	Moist	Moist		1	i i	1	1	1

Table 25.--Soil Moisture Status by Depth--Continued

Table 25.--Soil Moisture Status by Depth--Continued

	Hydro- logic group	January 	February 	March 	April 	May	June 	July 	August 	September 	October 	November	December
			-		-	ļ		İ		1	1	ļ	
96D: Karlsborg	 c 	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-3.5: Moist	 0.0-1.5: Moist	 0.0-3.5: Moist	 0.0-3.5: Moist	 0.0-1.0: Dry	 0.0-1.5: Dry	 0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	 0.0-6.7: Moist
	 	 		3.5-4.0: Wet	1.5-4.0: Wet	3.5-4.0: Wet	3.5-4.0: Wet	1.0-6.7: Moist	1.5-6.7: Moist				
	 			4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist						
100B:	 												
Menahga	A 	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-1.0: Dry	0.0-1.5: Dry	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
	 							1.0-6.7: Moist	1.5-6.7: Moist				
100C:	 												
Menahga	A I	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-1.0: Dry	0.0-1.5: Dry	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
	 	 		 	 	 		1.0-6.7: Moist	1.5-6.7: Moist	 		 	
100D:	 	 											
Menahga	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
120B:	 												
Kost	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
127D:	 												
Amery	B 	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
Rosholt	 B 	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
127E:	 	 											
Amery	в 	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
Rosholt	 B 	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7:	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7:

Table 25.--Soil Moisture Status by Depth--Continued

	Hydro- logic group	January 	February 	March 	April 	May 	June 	July 	August 	September 	October 	November	Decembe:
L51A: Bluffton	C/D	 0.0-2.0: Moist 2.0-6.7: Wet		 0.0-1.0: Moist 1.0-6.7: Wet	0.0-6.7: Wet 	 0.0-6.7: Wet 		0.0-2.0: Moist 2.0-6.7: Wet	0.0-2.5: Moist 2.5-6.7: Wet	0.0-1.5: Moist 1.5-6.7:	 0.0-0.5: Moist 0.5-6.7: Wet	 0.0-0.5: Moist 0.5-6.7: Wet	0.0-2.0: Moist 2.0-6.7:
					į	į							
L52A:													
Alstad	С	0.0-2.5:	0.0-2.5:	0.0-1.5:	0.0-0.5:	0.0-1.0:	0.0-3.0:	0.0-6.7:	0.0-6.7:	0.0-3.5:	0.0-2.0:	0.0-1.0:	0.0-1.5:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
		2.5-6.7:	2.5-6.7:	1.5-6.7:	0.5-6.7:	1.0-6.7:	3.0-6.7:			3.5-6.7:	2.0-6.7:	1.0-6.7:	1.5-6.7:
		Wet	Wet	Wet	Wet	Wet	Wet			Wet	Wet	Wet	Wet
L54E:													
Cushing	В	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
L56B:		 	l I										
Magnor, very		 	I I	1								1	
stony	С	0.0-2.5:	0.0-2.5:	0.0-1.5:	0.0-0.5:	0.0-1.0:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-3.0:	0.0-2.0:	0.0-1.0:	0.0-1.5:
B COMY		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
		2.5-3.5:	2.5-3.5:	1.5-3.5:	0.5-3.5:	1.0-3.5:	2.5-3.5:	MOISC	MOISC	3.0-3.5:	2.0-3.5:	1.0-3.5:	1.5-3.5:
		Wet	Wet	Wet	Wet	Wet	Wet			Wet	Wet	Wet	Wet
		3.5-6.7:	3.5-6.7:	3.5-6.7:	3.5-6.7:	3.5-6.7:	3.5-6.7:			3.5-6.7:	3.5-6.7:	3.5-6.7:	3.5-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist			Moist	Moist	Moist	Moist
		ĺ	į		İ	İ	1		į	İ	į	İ	į
Magnor	С	0.0-2.5:	0.0-2.5:	0.0-1.5:	0.0-0.5:	0.0-1.0:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-3.0:	0.0-2.0:	0.0-1.0:	0.0-1.5:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
		2.5-3.5:	2.5-3.5:	1.5-3.5:	0.5-3.5:	1.0-3.5:	2.5-3.5:			3.0-3.5:	2.0-3.5:	1.0-3.5:	1.5-3.5:
		Wet	Wet	Wet	Wet	Wet	Wet	ļ		Wet	Wet	Wet	Wet
		3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist			3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist
		MOISC	MOISC	MOISC	MOISC	MOISC	MOISC			MOISC	MOISC	MOISC	MOISC
L57B:		į	į	į	į	j	į	į	į	į	į	į	į
Freeon, very													
stony	C	0.0-6.7:		0.0-2.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	,	0.0-2.5:	0.0-2.0:	0.0-2.5:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
				2.5-3.5:	1.0-3.5:	1.5-3.5:					2.5-3.5:	2.0-3.5:	2.5-3.5:
				Wet	Wet	Wet					Wet	Wet	Wet
				3.5-6.7:	3.5-6.7:	3.5-6.7:					3.5-6.7:	3.5-6.7:	3.5-6.7:
		l I		Moist	Moist	Moist					Moist	Moist	Moist
Freeon	C	 0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-2.0:	0.0-2.5:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
				2.5-3.5:	1.0-3.5:	1.5-3.5:					2.5-3.5:	2.0-3.5:	2.5-3.5:
		i	i	Wet	Wet	Wet	i	i	i	i	Wet	Wet	Wet
				3.5-6.7:	3.5-6.7:	3.5-6.7:					3.5-6.7:	3.5-6.7:	3.5-6.7:
		1	!	Moist	Moist	Moist	1	1	1	1	Moist	Moist	Moist

Table 25.--Soil Moisture Status by Depth--Continued

Map symbol and soil name	Hydro- logic group	January 	February	March 	April	May 	June 	July 	August 	September	October	November	December
	 	1	<u> </u>	<u> </u>	1	<u> </u>	1	_ <u> </u>	<u> </u>	1	 	1	<u> </u>
157C:		i		i	i	i	i		i	i	ì	i	
Freeon, very	i	İ	İ	İ	i	i	i	į	İ	i	i	į	i
stony	C	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-2.0:	0.0-2.5:
	İ	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	İ			2.5-3.5:	1.0-3.5:	1.5-3.5:					2.5-3.5:	2.0-3.5:	2.5-3.5:
				Wet	Wet	Wet					Wet	Wet	Wet
				3.5-6.7:	3.5-6.7:	3.5-6.7:					3.5-6.7:	3.5-6.7:	3.5-6.7:
				Moist	Moist	Moist					Moist	Moist	Moist
Freeon	 C	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-2.0:	0.0-2.5:
	i	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	i			2.5-3.5:	1.0-3.5:	1.5-3.5:	i	i	i		2.5-3.5:	2.0-3.5:	2.5-3.5:
	İ	İ	j	Wet	Wet	Wet	İ	j	j	İ	Wet	Wet	Wet
	İ			3.5-6.7:	3.5-6.7:	3.5-6.7:					3.5-6.7:	3.5-6.7:	3.5-6.7:
				Moist	Moist	Moist					Moist	Moist	Moist
160A:	 												
Oesterle	C	0.0-3.0:	0.0-4.0:	0.0-2.5:	0.0-0.5:	0.0-1.0:	0.0-2.5:	0.0-3.5:	0.0-4.0:	0.0-3.0:	0.0-2.0:	0.0-2.0:	0.0-2.0:
	i	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	i	3.0-6.7:	4.0-6.7:	2.5-6.7:	0.5-6.7:	1.0-6.7:	2.5-6.7:	3.5-6.7:	4.0-6.7:	3.0-6.7:	2.0-6.7:	2.0-6.7:	2.0-6.7:
	į	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet
165B:	 												
Elderon	В	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
	į	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
185B:					1								
Tradelake	c	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.5:	0.0-2.5:	0.0-3.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-3.5:	0.0-3.0:
	i	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	i			j	1.5-4.0:	2.5-4.0:	3.5-4.0:	i	i		j	3.5-4.0:	3.0-4.0:
	İ	İ	İ	İ	Wet	Wet	Wet	j	j	İ	İ	Wet	Wet
	İ				4.0-6.7:	4.0-6.7:	4.0-6.7:					4.0-6.7:	4.0-6.7:
					Moist	Moist	Moist				1	Moist	Moist
Taylor	 C	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
=	i	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	i			1.5-2.0:	1.0-2.0:	1.5-2.0:	i						i
	İ	İ	İ	Wet	Wet	Wet	İ	İ	İ	İ	İ	İ	İ
	İ		i	2.0-6.7:	2.0-6.7:	2.0-6.7:	j	j	i	i	j		j
	i	i	i	Moist	Moist	Moist	i	i	i	i	i	i	i

		Ta	ble 25Soil	Moisture St	tatus by Dep	thContinu	ied		
Map symbol	 Hydro- January		 April	May	June	July	 August	September	October
and	logic	į į	į	į	j i	_	İ	j	İ
soil name	group								

Map symbol and soil name	Hydro- logic group	January 	February 	March 	April 	May 	June	July 	August 	September	October	November	December
2022 114110			I		1	<u> </u>	I		I	1	1	1	
185C:	į	į	j	j	İ	j	j	j	j	j	İ	j	j
Tradelake	C	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.5:	0.0-3.0:	0.0-3.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
					1.5-4.0:	3.0-4.0:	3.5-4.0:						
					Wet	Wet	Wet						
					4.0-6.7:	4.0-6.7:	4.0-6.7:						
	ļ				Moist	Moist	Moist						
Taylor	 C	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-2.5:	0.0-6.7:	 0.0-6.7:	 0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
2		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	i			1.5-2.0:	1.0-2.0:	1.5-2.0:							
	i	İ		Wet	Wet	Wet	i	i	i	i	i	i	
	i			2.0-6.7:	2.0-6.7:	2.0-6.7:		i	i		i		
	į	İ	j	Moist	Moist	Moist	i	j	i	j	į	i	j
185D:													
Tradelake	l c	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-3.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
II adelake	-	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	1		MOISC		2.0-4.0:	3.5-4.0:			MOISC		MOISC	MOISC	MOISC
	1				Wet	Wet							
					4.0-6.7:	4.0-6.7:				i	i		
	İ				Moist	Moist	i						
Taylor	C	0.0-6.7:	0.0-6.7:	0.0-2.0: Moist	0.0-2.0:	0.0-2.5: Moist	0.0-6.7:	0.0-6.7:	0.0-6.7: Moist	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist		Moist		Moist	Moist	1	Moist	Moist	Moist	Moist
				1.5-2.0:	1.0-2.0: Wet	1.5-2.0: Wet							
				Wet	1	wet 2.0-6.7:					\		
	l			2.0-6.7: Moist	2.0-6.7: Moist	2.0-6.7: Moist							
	į	į	į	į	į	į	Ì	į	į	į	į	į	į
185E: Tradelake	 C	 0.0-6.7:	 0.0-6.7:	 0.0-6.7:	0.0-2.0:	0.0-3.5:	 0.0-6.7:	 0.0-6.7:	 0.0-6.7:	0.0-6.7:	0.0-6.7:	 0.0-6.7:	0.0-6.7:
Traderane		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	i				2.0-4.0:	3.5-4.0:							
		i		İ	Wet	Wet	i	i	i	i	ì	i	
	i				4.0-6.7:	4.0-6.7:		i	i				
	İ				Moist	Moist	Ì	İ	i	İ	İ	İ	
Taylor	 C	 0.0-6.7:	0.0-6.7:	 0.0-2.0:	0.0-2.0:	0.0-2.5:	 0.0-6.7:	 0.0-6.7:	 0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
149101-3		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	I	MOISC	MOISC	1.5-2.0:	1.0-2.0:	1.5-2.0:	MOISC	MOISC	MOISC	MOISC	Moist	MOIST	MOISC
	I			Wet	Wet	Wet							
	I			2.0-6.7:	2.0-6.7:	2.0-6.7:							
	1		1	Moist	Moist	Moist							

Table 25.--Soil Moisture Status by Depth--Continued

	Hydro- logic group	January	February	March	April	May	June	July	August	September	October	November	December
189A:	 	 				}							
Siren	D 	0.0-3.0: Moist 3.0-3.5: Wet 3.5-6.7: Moist	0.0-3.0: Moist 3.0-3.5: Wet 3.5-6.7: Moist	0.0-3.0: Moist 3.0-5.0: Wet 5.0-6.7: Moist	0.0-0.5: Moist 0.5-6.7: Wet 	0.0-1.0: Moist 1.0-6.7: Wet 	0.0-2.5: Moist 2.5-6.7: Wet 	0.0-2.5: Moist 2.5-3.5: Wet 3.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-2.0: Moist 2.0-3.5: Wet 3.5-6.7: Moist	0.0-1.0: Moist 1.0-3.5: Wet 3.5-6.7: Moist	0.0-2.0: Moist 2.0-3.5: Wet 3.5-6.7: Moist
193A:	į	İ	j	İ	į	į	j	İ	į	j	į	j	j
Minocqua	B/D 	0.0-2.0: Moist 2.0-6.7: Wet	0.0-2.5: Moist 2.5-6.7: Wet	0.0-1.0: Moist 1.0-6.7: Wet	0.0-6.7: Wet 	0.0-6.7: Wet 	0.0-1.0: Moist 1.0-6.7: Wet	0.0-2.0: Moist 2.0-6.7: Wet	0.0-2.5: Moist 2.5-6.7: Wet	0.0-1.5: Moist 1.5-6.7: Wet	0.0-0.5: Moist 0.5-6.7: Wet	0.0-6.7: Wet 	0.0-0.5: Moist 0.5-6.7: Wet
337A:	İ					i					İ	i	
Plover	c 	0.0-2.5: Moist 2.5-3.0: Wet 3.0-6.7: Moist 	0.0-2.5: Moist 2.5-3.5: Wet 3.5-6.7: Moist	0.0-2.5: Moist 2.5-5.0: Wet 5.0-6.7: Moist 	0.0-0.5: Moist 0.5-6.7: Wet 	0.0-1.0: Moist 1.0-6.7: Wet 	0.0-2.5: Moist 2.5-6.7: Wet 	0.0-2.5: Moist 2.5-6.7: Wet 	0.0-4.0: Moist 4.0-6.7: Wet 	0.0-5.0: Moist 5.0-6.7: Wet 	0.0-2.0: Moist 2.0-2.5: Wet 2.5-5.0: Moist 5.0-6.7: Wet	0.0-1.0: Moist 1.0-2.5: Wet 2.5-5.5: Moist 5.5-6.7: Wet	0.0-2.0: Moist 2.0-3.0: Wet 3.0-6.0: Moist 6.0-6.7: Wet
368B:												i	
Mahtomedi	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
Cress	 A 	 0.0-6.7: Moist	0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	0.0-6.7: Moist	 0.0-6.7: Moist	0.0-6.7: Moist
368C:	 	 										1	
Mahtomedi	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
Cress	 A 	 0.0-6.7: Moist 	 0.0-6.7: Moist	 0.0-6.7: Moist 	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist

Table 25.--Soil Moisture Status by Depth--Continued

Map symbol and soil name	Hydro- logic group	January 	February	March	April	May	June	July	August 	September	October	November	Decembe
368D:	 	 		 								l I	
Mahtomedi	A 	 0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
Cress	 A 	 0.0-6.7: Moist	 0.0-6.7: Moist	0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist
368E:	 	 						l I				1	
Mahtomedi	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
Cress	 A 	 0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	 0.0-6.7: Moist
380B:	 	 											
Cress	A 	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
Rosholt	 B 	 0.0-6.7: Moist	 0.0-6.7: Moist	0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	 0.0-6.7: Moist	0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist
380C:	 	 				1							
Cress	A 	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
Rosholt	 B 	 0.0-6.7: Moist 	 0.0-6.7: Moist	0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	0.0-6.7: Moist
380D:				İ		i					İ	i	
Cress	A 	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
Rosholt	 B 	 0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	 0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	 0.0-6.7: Moist
383B:	 	 		1		1			I				
Mahtomedi	A 	 0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist

Table 25.--Soil Moisture Status by Depth--Continued

Map symbol and soil name	Hydro- logic group	January	February	March 	April	May	June	July	August	September	October	November	Decembe
	Ī			Ī									
383C:													
Mahtomedi	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
383D:					i	i	i		i	i		i	
Mahtomedi	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
392C:													
Rockmarsh	ם ם 	0.0-2.5: Moist 2.5-4.0:	Moist	0.0-1.5: Moist 1.5-4.0:	 0.0-0.5: Moist 0.5-4.0:	 0.0-1.0: Moist 1.0-4.0:	0.0-3.0: Moist 3.0-4.0:	0.0-6.7: Moist 	 0.0-6.7: Moist 	0.0-3.5: Moist 3.5-4.0:	0.0-2.0: Moist 2.0-4.0:	0.0-1.0: Moist 1.0-4.0:	0.0-1.5: Moist 1.5-4.0:
	 	Wet 4.0-6.7: Moist	Wet 4.0-6.7: Moist	Wet 4.0-6.7: Moist	Wet 4.0-6.7: Moist	Wet 4.0-6.7: Moist	Wet 4.0-6.7: Moist			Wet 4.0-6.7: Moist	Wet 4.0-6.7: Moist	Wet 4.0-6.7: Moist	Wet 4.0-6.7: Moist
Dairyland	 c 	 0.0-4.0: Moist 4.0-4.5:	 0.0-4.0: Moist 4.0-4.5:	 0.0-3.5: Moist 3.5-4.5:	 0.0-2.0: Moist 2.0-4.5:	 0.0-2.5: Moist 2.5-4.5:	 0.0-4.0: Moist 4.0-4.5:	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-4.0: Moist 4.0-4.5:	0.0-3.5: Moist 3.5-4.5:	 0.0-2.5: Moist 2.5-4.5:	 0.0-3.0: Moist 3.0-4.5:
	 	Wet 4.5-6.7: Moist	Wet 4.5-6.7: Moist	Wet 4.5-6.7: Moist	Wet 4.5-6.7: Moist	Wet 4.5-6.7: Moist	Wet 4.5-6.7: Moist		i 	Wet 4.5-6.7: Moist	Wet 4.5-6.7: Moist	Wet 4.5-6.7: Moist	Wet 4.5-6.7: Moist
Makwa	 D 	 0.0-2.0: Moist 2.0-6.7: Wet	0.0-2.5: Moist 2.5-6.7: Wet	 0.0-1.0: Moist 1.0-6.7: Wet	0.0-6.7: Wet 	0.0-6.7: Wet 	0.0-1.0: Moist 1.0-6.7: Wet	0.0-2.0: Moist 2.0-6.7: Wet		 0.0-1.5: Moist 1.5-6.7: Wet	 0.0-0.5: Moist 0.5-6.7: Wet	0.0-6.7: Wet 	0.0-0.5: Moist 0.5-6.7: Wet
396B:	 					l I		l I	I I	I I	1	I I	
Friendship	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.0: Moist 6.0-6.7: Wet	0.0-4.5: Moist 4.5-6.7: Wet	0.0-6.0: Moist 6.0-6.7: Wet	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
Wurtsmith	 A 	 0.0-4.0: Moist 4.0-6.7: Wet	0.0-5.0: Moist 5.0-6.7: Wet	 0.0-3.5: Moist 3.5-6.7: Wet	0.0-2.0: Moist 2.0-6.7: Wet	0.0-2.5: Moist 2.5-6.7: Wet	0.0-4.0: Moist 4.0-6.7: Wet	 0.0-0.5: Dry 0.5-4.5: Moist	0.0-1.0: Dry 1.0-5.0: Moist	0.0-4.0: Moist 4.0-6.7: Wet	 0.0-3.5: Moist 3.5-6.7: Wet	0.0-3.0: Moist 3.0-6.7: Wet	0.0-3.5: Moist 3.5-6.7: Wet
	 	 						4.5-6.7: Wet	5.0-6.7: Wet				

Map symbol and soil name	Hydro- logic group	January	February	March	April	May	June	July	August	September	October	November	December
396B:													
Grayling	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 0.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
397A:				 								}	
Perchlake	B 	0.0-3.0: Moist 3.0-6.7: Wet	0.0-4.0: Moist 4.0-6.7: Wet	0.0-2.5: Moist 2.5-6.7: Wet	0.0-0.5: Moist 0.5-6.7: Wet	0.0-1.0: Moist 1.0-6.7: Wet	0.0-2.5: Moist 2.5-6.7: Wet	0.0-3.5: Moist 3.5-6.7: Wet	0.0-4.0: Moist 4.0-6.7: Wet	0.0-3.0: Moist 3.0-6.7: Wet	0.0-2.0: Moist 2.0-6.7: Wet	0.0-2.0: Moist 2.0-6.7: Wet	0.0-2.0: Moist 2.0-6.7: Wet
399B:			İ						İ	1		İ	
Grayling	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 0.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
399C:													
Grayling	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 0.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
399D:		İ	i							i			
Grayling	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 0.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
406A:													
Loxley	A/D 	0.0-1.0: Moist 1.0-6.7: Wet	0.0-1.0: Moist 1.0-6.7: Wet	0.0-0.5: Moist 0.5-6.7: Wet	0.0-6.7: Wet 	0.0-6.7: Wet 	0.0-6.7: Wet 	0.0-0.5: Moist 0.5-6.7: Wet	0.0-0.5: Moist 0.5-6.7: Wet	0.0-0.5: Moist 0.5-6.7: Wet	0.0-6.7: Wet 	0.0-6.7: Wet 	0.0-0.5: Moist 0.5-6.7: Wet
407A:	i		İ	İ	i	i	İ	İ	i	İ	į	İ	i
Seelyeville	A/D 	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet
Markey	 A/D 	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet

410A:

Seelyeville---- A/D

0.0-6.7: 0.0-6.7:

Wet

Wet

0.0-6.7:

Wet

0.0-6.7:

Wet

0.0-6.7:

Wet

0.0-6.7:

Wet

0.0-6.7:

Wet

0.0-6.7:

Wet

0.0-6.7:

Wet

Wet

0.0-6.7: | 0.0-6.7: | 0.0-6.7:

Wet

Wet

Table 25.--Soil Moisture Status by Depth--Continued

Table 25.--Soil Moisture Status by Depth--Continued

Map symbol and soil name	Hydro- logic group	January 	February 	March	April 	May	June	July	August 	September	October 	November	December
410A:		 											
Cathro	A/D	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet
419A:		! 											
Seelyeville	A/D	0.0-6.7: Wet	0.0-6.7:	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7:	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet
Cathro	A/D	 0.0-6.7: Wet	 0.0-6.7: Wet	0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	 0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet
Markey	A/D	 0.0-6.7: Wet	 0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	 0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	 0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7:
421A:	l	 	1			l I					 		
Dora	A/D 	0.0-3.0: Wet 3.0-6.7: Moist	0.0-3.0: Wet 3.0-6.7: Moist	0.0-3.0: Wet 3.0-6.7: Moist	0.0-3.0: Wet 3.0-6.7: Moist	0.0-3.0: Wet 3.0-6.7: Moist	0.0-3.0: Wet 3.0-6.7: Moist	0.0-3.0: Wet 3.0-6.7: Moist	0.0-3.0: Wet 3.0-6.7: Moist				
Markey	 A/D 	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet				
Seelyeville	 A/D 	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet
422A:		! 											
Seelyeville	A/D	0.0-6.7: Wet	0.0-6.7:	0.0-6.7: Wet	0.0-6.7:	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7:	0.0-6.7:	0.0-6.7: Wet	0.0-6.7:	0.0-6.7:
Cathro	A/D	 0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7:	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7:
Rondeau	A/D	 0.0-6.7: Wet	 0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	 0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7:
426B:		 				1							
Emmert	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist

0.0-1.5: | 0.0-6.7: | 0.0-6.7: | 0.0-6.7: | 0.0-6.7:

Moist

Moist

Moist

Moist

Map symbol and soil name	Hydro- logic group	January 	February	March	April	May	June	July	August 	September	October	November	December
426B:	 	 											
Mahtomedi	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
Menahga	 A 	 0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
426C:	 	 											
Emmert	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
Mahtomedi	 A 	 0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
Menahga	 A 	 0.0-6.7: Moist 	0.0-6.7: Moist 	 0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	 0.0-6.7: Moist 	0.0-6.7: Moist 	 0.0-6.7: Moist
426D:	 												
Emmert	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
Mahtomedi	 A 	 0.0-6.7: Moist 	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-1.0: Dry 1.0-6.7:	 0.0-1.5: Dry 1.5-6.7:	 0.0-6.7: Moist 	0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist

0.0-6.7: 0.0-6.7: 0.0-6.7: 0.0-6.7: 0.0-1.0:

Moist

Moist

Dry

1.0-6.7:

Moist

Dry

1.5-6.7:

Moist

Menahga----- A

0.0-6.7: 0.0-6.7:

Moist

Moist

Moist

Moist

Table 25.--Soil Moisture Status by Depth--Continued

Table 25.--Soil Moisture Status by Depth--Continued

Map symbol and soil name	Hydro- logic group	January 	February 	March 	April 	May 	June 	July 	August 	September 	October 	November 	Decembe:
430A:													
Freya	 D 	0.0-2.5: Moist 2.5-4.5: Wet 4.5-6.7: Moist	0.0-2.5: Moist 2.5-4.5: Wet 4.5-6.7: Moist	0.0-2.5: Moist 2.5-4.5: Wet 4.5-6.7: Moist	0.0-0.5: Moist 0.5-4.5: Wet 4.5-6.7: Moist	0.0-1.0: Moist 1.0-4.5: Wet 4.5-6.7: Moist	0.0-2.5: Moist 2.5-4.5: Wet 4.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-2.5: Moist 2.5-3.5: Wet 3.5-6.7: Moist	0.0-2.5: Moist 2.5-4.5: Wet 4.5-6.7: Moist	0.0-2.5: Moist 2.5-4.5: Wet 4.5-6.7: Moist
439B:	 												
Graycalm	A	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
Menahga	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
439C:	 												
Graycalm	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
Menahga	 A 	 0.0-6.7: Moist 	0.0-6.7: Moist 	 0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	 0.0-6.7: Moist 	0.0-6.7: Moist 	 0.0-6.7: Moist
439D:													
Graycalm	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
Menahga	 A 	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	 0.0-1.0: Dry 1.0-6.7: Moist	 0.0-1.5: Dry 1.5-6.7: Moist	 0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	 0.0-6.7: Moist

Table 25.--Soil Moisture Status by Depth--Continued

	Hydro- logic group	January 	February 	March 	April 	May 	June 	July 	August 	September 	October 	November	December
442C:													
Haugen	B	0.0-6.7: Moist	0.0-6.7: Moist	0.0-2.0: Moist	0.0-2.0: Moist	0.0-3.0: Moist	0.0-4.5: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-4.0: Moist	0.0-4.5: Moist
				2.0-6.0: Wet	2.0-6.0: Wet	3.0-6.0: Wet	4.5-6.0: Wet					4.0-6.0: Wet	4.5-6.0: Wet
				6.0-6.7: Moist	6.0-6.7: Moist	6.0-6.7: Moist	6.0-6.7: Moist					6.0-6.7: Moist	6.0-6.7: Moist
Greenwood	 A/D 	0.0-1.0: Moist	0.0-1.0:	0.0-0.5: Moist	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-0.5: Moist	0.0-0.5: Moist	0.0-0.5:	0.0-6.7:	0.0-6.7:	0.0-0.5:
		1.0-6.7: Wet	1.0-6.7: Wet	0.5-6.7: Wet				0.5-6.7: Wet	0.5-6.7: Wet	0.5-6.7: Wet			0.5-6.7: Wet
443D:													
Amery	В	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
Greenwood	 A/D 	0.0-1.0: Moist	0.0-1.0: Moist	0.0-0.5: Moist	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-0.5: Moist	0.0-0.5: Moist	0.0-0.5: Moist	0.0-6.7: Wet	0.0-6.7: Wet	 0.0-0.5: Moist
		1.0-6.7: Wet	1.0-6.7: Wet	0.5-6.7: Wet				0.5-6.7: Wet	0.5-6.7: Wet	0.5-6.7: Wet			0.5-6.7: Wet
459A:													
Loxley	A/D	0.0-1.0: Moist	0.0-1.0: Moist	0.0-0.5: Moist	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-0.5: Moist	0.0-0.5: Moist	0.0-0.5: Moist	0.0-6.7: Wet	0.0-6.7: Wet	0.0-0.5: Moist
		1.0-6.7: Wet	1.0-6.7: Wet	0.5-6.7: Wet				0.5-6.7: Wet	0.5-6.7: Wet	0.5-6.7: Wet			0.5-6.7: Wet
Daisybay	 A 	 0.0-6.7: Wet	 0.0-6.7: Wet	0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet
Dawson	 A/D 	0.0-0.5: Moist	0.0-0.5: Moist	0.0-0.5: Moist	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-0.5: Moist	0.0-0.5: Moist	0.0-0.5: Moist	0.0-6.7:	0.0-6.7: Wet	0.0-0.5: Moist
		0.5-6.7: Wet	0.5-6.7: Wet	0.5-6.7: Wet				0.5-6.7: Wet	0.5-6.7: Wet	0.5-6.7: Wet			0.5-6.7: Wet
461A:													
Bowstring	A/D	0.0-2.0: Moist	0.0-2.5: Moist	0.0-1.0: Moist	0.0-6.7: Wet	0.0-6.7: Wet	0.0-1.0: Moist	0.0-2.0: Moist	0.0-2.5: Moist	0.0-1.5: Moist	0.0-0.5: Moist	0.0-6.7: Wet	0.0-0.5: Moist
		2.0-6.7: Wet	2.5-6.7: Wet	1.0-6.7: Wet			1.0-6.7: Wet	2.0-6.7: Wet	2.5-6.7: Wet	1.5-6.7: Wet	0.5-6.7: Wet		0.5-6.7: Wet
465A:													
Newson	A/D	0.0-2.0:	0.0-2.5:	0.0-1.0:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-2.0:	0.0-2.5:	0.0-1.5:	0.0-0.5:	0.0-6.7:	0.0-0.5:
		Moist	Moist	Moist	Wet	Wet	Moist	Moist	Moist	Moist	Moist	Wet	Moist
		2.0-6.7:	2.5-6.7:	1.0-6.7:			1.0-6.7:	2.0-6.7:	2.5-6.7:	1.5-6.7:	0.5-6.7:		0.5-6.7:
		Wet	Wet	Wet	1	1	Wet	Wet	Wet	Wet	Wet	1	Wet

Table 25	Soil	Moisture	Status	by	DepthContinued
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Map symbol and soil name	Hydro- logic group	January	February	March	April	May	June	July	August	September	October	November	December
465A:			1			-	1					1	
Meehan	 	0.0-3.0: Moist 3.0-6.7: Wet	0.0-4.0: Moist 4.0-6.7: Wet	0.0-2.5: Moist 2.5-6.7: Wet	0.0-0.5: Moist 0.5-6.7: Wet	0.0-1.0: Moist 1.0-6.7: Wet	0.0-2.5: Moist 2.5-6.7: Wet	0.0-3.5: Moist 3.5-6.7: Wet	0.0-4.0: Moist 4.0-6.7: Wet	0.0-3.0: Moist 3.0-6.7: Wet	0.0-2.0: Moist 2.0-6.7: Wet	0.0-2.0: Moist 2.0-6.7: Wet	0.0-2.0: Moist 2.0-6.7: Wet
4600												1	
469E: Bigisland	 B 	 0.0-6.7: Moist 	0.0-6.7: Moist 	 0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	 0.0-1.0: Dry 1.0-6.7: Moist	 0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
	 	 						MOISC	MOISC			i	
Milaca	c 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-2.0: Moist 2.0-3.5:	0.0-2.5: Moist 2.5-3.5:	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-2.5: Moist 2.5-3.5:	0.0-6.7: Moist
	 	 		 	Wet 3.5-6.7: Moist	Wet 3.5-6.7: Moist						Wet 3.5-6.7: Moist	
471B:	 	 										i	
Dairyland	c 	0.0-4.0: Moist 4.0-4.5: Wet 4.5-6.7: Moist	Moist	0.0-3.5: Moist 3.5-4.5: Wet 4.5-6.7: Moist	0.0-2.0: Moist 2.0-4.5: Wet 4.5-6.7: Moist	0.0-2.5: Moist 2.5-4.5: Wet 4.5-6.7: Moist	0.0-4.0: Moist 4.0-4.5: Wet 4.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-4.0: Moist 4.0-4.5: Wet 4.5-6.7: Moist	0.0-3.5: Moist 3.5-4.5: Wet 4.5-6.7: Moist	0.0-2.5: Moist 2.5-4.5: Wet 4.5-6.7: Moist	0.0-3.0: Moist 3.0-4.5: Wet 4.5-6.7: Moist
Emmert	 A 	 0.0-6.7: Moist 	0.0-6.7: Moist 	 0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
471C:	İ	İ		i	İ	i	i		İ	İ	İ	i	
Dairyland	c 	0.0-4.0: Moist 4.0-4.5: Wet 4.5-6.7: Moist	Moist	0.0-3.5: Moist 3.5-4.5: Wet 4.5-6.7: Moist	0.0-2.0: Moist 2.0-4.5: Wet 4.5-6.7: Moist	0.0-2.5: Moist 2.5-4.5: Wet 4.5-6.7: Moist	0.0-4.0: Moist 4.0-4.5: Wet 4.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-4.0: Moist 4.0-4.5: Wet 4.5-6.7: Moist	0.0-3.5: Moist 3.5-4.5: Wet 4.5-6.7: Moist	0.0-2.5: Moist 2.5-4.5: Wet 4.5-6.7: Moist	0.0-3.0: Moist 3.0-4.5: Wet 4.5-6.7: Moist
Emmert	 A 	 0.0-6.7: Moist 	0.0-6.7: Moist 	 0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	 0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist

Table 25.--Soil Moisture Status by Depth--Continued

	Hydro- logic	January	February	March	April	May	June	July	August	September	October	November	December
soil name	group	1			1								
BOII Hame	group	1	1	1	1	1	1	1	1	1	1	1	1
472A:	 		1	1							1		
Rockmarsh	D D	0.0-2.5:	0.0-2.5:	0.0-1.5:	0.0-0.5:	0.0-1.0:	0.0-3.0:	0.0-6.7:	0.0-6.7:	0.0-3.5:	0.0-2.0:	0.0-1.0:	0.0-1.5:
	İ	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	İ	2.5-4.0:	2.5-4.0:	1.5-4.0:	0.5-4.0:	1.0-4.0:	3.0-4.0:	i	i	3.5-4.0:	2.0-4.0:	1.0-4.0:	1.5-4.0:
	j	Wet	Wet	Wet	Wet	Wet	Wet	į	j	Wet	Wet	Wet	Wet
	İ	4.0-6.7:	4.0-6.7:	4.0-6.7:	4.0-6.7:	4.0-6.7:	4.0-6.7:	j		4.0-6.7:	4.0-6.7:	4.0-6.7:	4.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist		į	Moist	Moist	Moist	Moist
Clemens	 D	0.0-2.0:	0.0-2.0:	 0.0-1.5:	0.0-0.5:	 0.0-1.5:	0.0-2.0:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-3.0:	0.0-2.0:	0.0-2.0:
CICMCID	1	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	l I	2.0-6.7:	2.0-6.7:	1.5-6.7:	0.5-6.7:	1.5-6.7:	2.0-6.7:	2.0-6.7:	2.0-6.7:	3.0-6.7:	3.0-6.7:	2.0-6.7:	2.0-6.7:
		Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet
473A: Dairyland	l I C	0.0-4.0:	0.0-4.0:	0.0-3.5:	0.0-2.0:	0.0-2.5:	0.0-4.0:	0.0-6.7:	 0.0-6.7:	0.0-4.0:	0.0-3.5:	0.0-2.5:	0.0-3.0:
Dairyland	-	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	l I	4.0-4.5:	4.0-4.5:	3.5-4.5:	2.0-4.5:	2.5-4.5:	4.0-4.5:	MOISC	MOISC	4.0-4.5:	3.5-4.5:	2.5-4.5:	3.0-4.5:
	l I	Wet	Wet	Wet	Wet	Wet	Wet			Wet	Wet	Wet	Wet
	l I	4.5-6.7:	4.5-6.7:	4.5-6.7:	4.5-6.7:	4.5-6.7:	4.5-6.7:			4.5-6.7:	4.5-6.7:	4.5-6.7:	4.5-6.7:
	! 	Moist	Moist	Moist	Moist	Moist	Moist			Moist	Moist	Moist	Moist
Skog	C	0.0-4.5:	0.0-5.5:	0.0-4.0:	0.0-2.5:	0.0-3.0:	0.0-4.5:	0.0-5.0:	0.0-5.5:	0.0-4.5:	0.0-4.0:	0.0-3.5:	0.0-4.0:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
		4.5-6.7:	5.5-6.7:	4.0-6.7:	2.5-6.7:	3.0-6.7:	4.5-6.7:	5.0-6.7:	5.5-6.7:	4.5-6.7:	4.0-6.7:	3.5-6.7:	4.0-6.7:
	 	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet
484A:										i	Ì	i	
Greenwood	A/D	0.0-1.0:	0.0-1.0:	0.0-0.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-0.5:	0.0-0.5:	0.0-0.5:	0.0-6.7:	0.0-6.7:	0.0-0.5:
		Moist	Moist	Moist	Wet	Wet	Wet	Moist	Moist	Moist	Wet	Wet	Moist
		1.0-6.7:	1.0-6.7:	0.5-6.7:				0.5-6.7:	0.5-6.7:	0.5-6.7:			0.5-6.7:
	 	Wet	Wet	Wet				Wet	Wet	Wet			Wet
Beseman	A/D	0.0-1.0:	0.0-1.0:	0.0-0.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-0.5:	0.0-0.5:	0.0-0.5:	0.0-6.7:	0.0-6.7:	0.0-0.5:
	İ	Moist	Moist	Moist	Wet	Wet	Wet	Moist	Moist	Moist	Wet	Wet	Moist
	į	1.0-6.7:	1.0-6.7:	0.5-6.7:	i			0.5-6.7:	0.5-6.7:	0.5-6.7:	j		0.5-6.7:
		Wet	Wet	Wet		į	į	Wet	Wet	Wet	į	į	Wet
485C:	 	[[
Lupton	l D	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
	_	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet
Tawas	D	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
	ļ	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet

Table 25.--Soil Moisture Status by Depth--Continued

Map symbol and soil name	Hydro- logic group	January 	February 	March 	April 	May 	June 	July 	August	September 	October	November	December
495B:		 											
Karlsborg	ם	0.0-6.7:	0.0-6.7:	0.0-3.5:	0.0-1.5:	0.0-3.5:	0.0-3.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
				3.5-4.0:	1.5-4.0:	3.5-4.0:	3.5-4.0:	1.0-6.7:	1.5-6.7:				
				Wet	Wet	Wet	Wet	Moist	Moist	ļ			
				4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist						
Grettum	 A	 0.0-6.7:	0.0-6.7:	0.0-6.0:	0.0-4.5:	0.0-6.0:	0.0-6.7:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
	İ	Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
	İ			6.0-6.7:	4.5-6.7:	6.0-6.7:		1.0-6.7:	1.5-6.7:				
				Wet	Wet	Wet		Moist	Moist				
Perida	 B	 0.0-6.7:	0.0-6.7:	0.0-5.5:	0.0-3.5:	0.0-5.5:	0.0-5.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
	İ	Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
				5.5-6.0:	3.5-6.0:	5.5-6.0:	5.5-6.0:	1.0-6.7:	1.5-6.7:				
		!	ļ	Wet	Wet	Wet	Wet	Moist	Moist	ļ	ļ	Ţ	!
				6.0-6.7:	6.0-6.7:	6.0-6.7:	6.0-6.7:						
				Moist	Moist	Moist	Moist					1	
495C:	 	 				l I						l I	
Karlsborg	D	0.0-6.7:	0.0-6.7:	0.0-3.5:	0.0-1.5:	0.0-3.5:	0.0-3.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
				3.5-4.0:	1.5-4.0:	3.5-4.0:	3.5-4.0:	1.0-6.7:	1.5-6.7:				
				Wet	Wet	Wet	Wet	Moist	Moist	ļ			
		 		4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist						
-	į .												
Grettum	A	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.0: Moist	0.0-4.5: Moist	0.0-6.0: Moist	0.0-6.7: Moist	0.0-1.0: Dry	0.0-1.5: Dry	0.0-6.7: Moist	0.0-6.7:	0.0-6.7: Moist	0.0-6.7:
	l I	MOISC	MOISC	6.0-6.7:	4.5-6.7:	6.0-6.7:	MOISC	1.0-6.7:	1.5-6.7:	MOISC	MOISC	MOISC	MOISC
				Wet	Wet	Wet		Moist	Moist				
Perida	 B	0.0-6.7:	0.0-6.7:	0.0-5.5:	0.0-3.5:	0.0-5.5:	0.0-5.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
	İ	Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
				5.5-6.0:	3.5-6.0:	5.5-6.0:	5.5-6.0:	1.0-6.7:	1.5-6.7:				
		!	ļ	Wet	Wet	Wet	Wet	Moist	Moist	ļ	ļ	Ţ	!
				6.0-6.7: Moist	6.0-6.7: Moist	6.0-6.7: Moist	6.0-6.7: Moist						
	İ	İ	į					į	i	i	İ	i	
495D:	İ	İ	İ	İ	İ	İ	İ	į	İ	İ	İ	İ	İ
Karlsborg	D	0.0-6.7:	1	0.0-3.5:	0.0-1.5:	0.0-3.5:	0.0-3.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
				3.5-4.0:	1.5-4.0:	3.5-4.0:		1.0-6.7:	1.5-6.7:				
	I I	 	I	Wet	Wet 4.0-6.7:	Wet 4.0-6.7:	Wet 4.0-6.7:	Moist	Moist	1	1	1	1
	 			4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist						
	!	I .	1	MOISC	HOISE	MOISC	HOISE	1	1	1	1	1	

Map symbol and soil name	Hydro- logic group	January 	February	March 	April	May	June	July 	August	September	October	November	Decembe:
495D:	 	 					 						
Grettum	A	0.0-6.7:	1	0.0-6.0:	0.0-4.5:	0.0-6.0:	0.0-6.7:	0.0-1.0:	0.0-1.5:	1	0.0-6.7:	0.0-6.7:	0.0-6.7:
ļ		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
	 	 		6.0-6.7: Wet	4.5-6.7: Wet	6.0-6.7: Wet		1.0-6.7: Moist	1.5-6.7: Moist				
Perida	 B	0.0-6.7:	0.0-6.7:	0.0-5.5:	0.0-3.5:	0.0-5.5:	0.0-5.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
į		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
!				5.5-6.0:	3.5-6.0:	5.5-6.0:	5.5-6.0:	1.0-6.7:	1.5-6.7:				
				Wet	Wet	Wet	Wet	Moist	Moist				
	 	 		6.0-6.7: Moist	6.0-6.7: Moist	6.0-6.7: Moist	6.0-6.7: Moist						
496B:		 											
Karlsborg	C	0.0-6.7:	0.0-6.7:	0.0-3.5:	0.0-1.5:	0.0-3.5:	0.0-3.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
!		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
				3.5-4.0:	1.5-4.0:	3.5-4.0:	3.5-4.0:	1.0-6.7:	1.5-6.7:				
				Wet	Wet 4.0-6.7:	Wet	Wet	Moist	Moist				
		 		4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist						
496C:		 											
Karlsborg	C	0.0-6.7:	0.0-6.7:	0.0-3.5:	0.0-1.5:	0.0-3.5:	0.0-3.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
				3.5-4.0:	1.5-4.0:	3.5-4.0:	3.5-4.0:	1.0-6.7:	1.5-6.7:				
ļ	 	 		Wet 4.0-6.7:	Wet 4.0-6.7:	Wet 4.0-6.7:	Wet 4.0-6.7:	Moist	Moist				
	 			Moist	Moist	Moist	Moist						
496D:													
Karlsborg	C	0.0-6.7:	0.0-6.7:	0.0-3.5:	0.0-1.5:	0.0-3.5:	0.0-3.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
ļ		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
	 			3.5-4.0: Wet	1.5-4.0: Wet	3.5-4.0: Wet	3.5-4.0: Wet	1.0-6.7: Moist	1.5-6.7: Moist				
ļ	 	 		wet 4.0-6.7:	4.0-6.7:	4.0-6.7:	4.0-6.7:	MOIST	MOIST				
	 			Moist	Moist	Moist	Moist						
497A:	 	 											
Meenon	С	0.0-2.5:		0.0-1.5:	0.0-0.5:	0.0-0.5:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-1.5:	0.0-2.0:
!		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
ļ		2.5-3.5:	3.0-3.5:	1.5-4.5:	0.5-4.5:	0.5-4.5:	1.5-4.5:	ļ			2.0-3.5:	1.5-3.5:	2.0-3.5:
,		Wet	Wet	Wet	Wet	Wet	Wet			1	Wet	Wet	Wet
	1	3.5-6.7:	3.5-6.7:	4.5-6.7:	4.5-6.7:	4.5-6.7:	4.5-6.7:				3.5-6.7:	3.5-6.7:	3.5-6.7:

Table 25.--Soil Moisture Status by Depth--Continued

Table 25.--Soil Moisture Status by Depth--Continued

Map symbol and soil name	Hydro- logic group	January 	February 	March 	April 	May 	June 	July	August 	September 	October	November	Decembe:
521A:	 	 											
Dody	C/D 	0.0-0.5: Moist	0.0-1.5: Moist	0.0-4.0: Wet	0.0-4.0: Wet	0.0-4.0: Wet	0.0-1.0: Moist	0.0-2.0: Moist	0.0-2.5: Moist	0.0-2.5: Moist	0.0-0.5: Moist	0.0-4.0: Wet	0.0-4.0: Wet
		0.5-4.0: Wet 4.0-6.7:	1.5-4.0: Wet 4.0-6.7:	4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist	1.0-4.0: Wet 4.0-6.7:	2.0-4.0: Wet 4.0-6.7:	2.5-4.0: Wet 4.0-6.7:	2.5-4.0: Wet 4.0-6.7:	0.5-4.0: Wet 4.0-6.7:	4.0-6.7: Moist	4.0-6.7: Moist
	 	4.0-6.7: Moist 	4.0-6.7: Moist				4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist		
523A:		! 											
Nokasippi	B/D	0.0-1.5:	1	0.0-1.0:	0.0-3.5:	0.0-3.5:	0.0-1.5:	0.0-3.0:	0.0-6.7:	0.0-1.5:	0.0-1.0:	0.0-6.7:	0.0-0.5:
		Moist	Moist	Moist	Wet	Wet	Moist	Moist	Moist	Moist	Moist	Wet	Moist
		1.5-3.5: Wet	1.5-3.5: Wet	1.0-3.5: Wet	3.5-6.7: Moist	3.5-6.7: Moist	1.5-3.5: Wet	3.0-3.5: Wet		1.5-3.5: Wet	1.0-3.5: Wet		0.5-3.5:
		wet 3.5-6.7:	3.5-6.7:	3.5-6.7:	MOISC	MOISC	3.5-6.7:	3.5-6.7:		3.5-6.7:	3.5-6.7:		3.5-6.7:
		Moist	Moist	Moist			Moist	Moist		Moist	Moist		Moist
529B:		 											
Perida	В	0.0-6.7:	1	0.0-5.5:	0.0-3.5:	0.0-5.5:	0.0-5.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
				5.5-6.0: Wet	3.5-6.0: Wet	5.5-6.0: Wet	5.5-6.0: Wet	1.0-6.7: Moist	1.5-6.7: Moist				
		 		wet 6.0-6.7:	wet 6.0-6.7:	wet 6.0-6.7:	wet 6.0-6.7:	MOIST	Moist			\	
				Moist	Moist	Moist	Moist						
531A:	 	 											
Stengel	B/D	0.0-2.0:	0.0-2.0:	0.0-1.0:	0.0-0.5:	0.0-0.5:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.5:	0.0-1.5:	0.0-2.0:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	!	2.0-6.0:	2.0-6.0:	1.0-6.0:	0.5-6.0:	0.5-6.0:	1.5-6.0:				1.5-6.0:	1.5-6.0:	2.0-6.0:
		Wet	Wet	Wet	Wet	Wet	Wet			ļ	Wet	Wet	Wet
	ļ !	6.0-6.7: Moist	6.0-6.7: Moist	6.0-6.7: Moist	6.0-6.7: Moist	6.0-6.7: Moist	6.0-6.7: Moist				6.0-6.7: Moist	6.0-6.7: Moist	6.0-6.7: Moist
542B:	 	 											
Haugen, very	İ	İ	i	İ	İ	i	İ	į	i	i	İ	ì	i
stony	В	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-4.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-4.5:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	!			2.0-6.0:	2.0-6.0:	3.0-6.0:	4.5-6.0:					4.0-6.0:	4.5-6.0:
				Wet	Wet	Wet 6.0-6.7:	Wet					Wet	Wet
		 		6.0-6.7: Moist	6.0-6.7: Moist	Moist	6.0-6.7: Moist					6.0-6.7: Moist	6.0-6.7: Moist
Haugen	 B	 0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-4.5:	0.0-6.7:	 0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-4.5:
=	į	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
			i	2.0-6.0:	2.0-6.0:	3.0-6.0:	4.5-6.0:	i	j		j	4.0-6.0:	4.5-6.0:
				Wet	Wet	Wet	Wet					Wet	Wet
	!			6.0-6.7:	6.0-6.7:	6.0-6.7:	6.0-6.7:					6.0-6.7:	6.0-6.7:
				Moist	Moist	Moist	Moist					Moist	Moist

Map symbol	Hydro-	January	February	March	April	May	June	July	August	September	October	November	Decembe:
and	logic												
soil name	group		1	<u> </u>					1			1	
542C:	l	 					1						
Haugen, very	İ	İ	İ	İ	İ	j	j	j	İ	į	İ	ì	j
stony	В	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-4.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-4.5:
	İ	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	İ			2.0-6.0:	2.0-6.0:	3.0-6.0:	4.5-6.0:					4.0-6.0:	4.5-6.0:
	İ	ĺ	İ	Wet	Wet	Wet	Wet	ĺ	İ	İ	İ	Wet	Wet
	İ			6.0-6.7:	6.0-6.7:	6.0-6.7:	6.0-6.7:					6.0-6.7:	6.0-6.7:
	į			Moist	Moist	Moist	Moist		į	į	į	Moist	Moist
Haugen	 B	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-4.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-4.5:
	İ	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	İ	i		2.0-6.0:	2.0-6.0:	3.0-6.0:	4.5-6.0:	j	i			4.0-6.0:	4.5-6.0:
	İ	ĺ	İ	Wet	Wet	Wet	Wet	ĺ	İ	İ	İ	Wet	Wet
	İ			6.0-6.7:	6.0-6.7:	6.0-6.7:	6.0-6.7:					6.0-6.7:	6.0-6.7:
	İ			Moist	Moist	Moist	Moist		į	į		Moist	Moist
544F:		 											
Menahga	A	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
	İ	Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
	İ							1.0-6.7:	1.5-6.7:				
	į				į	İ	İ	Moist	Moist	į	į		į
Mahtomedi	 A	 0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
	i	Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
	İ	i		j	i			1.0-6.7:	1.5-6.7:			j	
	1	1		I				Moist	Moist		1		1

Table 25.--Soil Moisture Status by Depth--Continued

Map symbol and soil name	Hydro- logic group	January 	February 	March 	April 	May 	June	July 	August 	September 	October 	November	December
542C:		[
Haugen, very	l I	1				-	-						
stony	 B	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-4.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-4.5:
200117	-	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	İ			2.0-6.0:	2.0-6.0:	3.0-6.0:	4.5-6.0:					4.0-6.0:	4.5-6.0:
	į	į	İ	Wet	Wet	Wet	Wet	i	j	i	İ	Wet	Wet
	ĺ			6.0-6.7:	6.0-6.7:	6.0-6.7:	6.0-6.7:					6.0-6.7:	6.0-6.7:
		[Moist	Moist	Moist	Moist					Moist	Moist
Haugen	 B	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-4.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-4.5:
	į	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
				2.0-6.0:	2.0-6.0:	3.0-6.0:	4.5-6.0:					4.0-6.0:	4.5-6.0:
				Wet	Wet	Wet	Wet					Wet	Wet
				6.0-6.7:	6.0-6.7:	6.0-6.7:	6.0-6.7:					6.0-6.7:	6.0-6.7:
	 	 		Moist	Moist	Moist	Moist					Moist	Moist
544F:		İ			İ				İ	İ		Ì	
Menahga	A	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
	 	 !						1.0-6.7: Moist	1.5-6.7: Moist				
Mahtomedi	 A	 0.0-6.7:	0.0-6.7:	0.0-6.7:	 0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-1.5:	 0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
	į	Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
	ĺ							1.0-6.7:	1.5-6.7:				
								Moist	Moist				
553B:													
Branstad	C	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-4.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-5.5:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
					2.0-6.7:	2.0-6.7:	3.0-6.7:	4.5-6.7:	ļ			4.0-6.7:	5.5-6.7:
	 	 			Wet	Wet	Wet	Wet				Wet	Wet
553C:	İ	İ	İ		j	İ	İ		İ				
Branstad	C	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-4.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-5.5:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
					2.0-6.7:	2.0-6.7:	3.0-6.7:	4.5-6.7:				4.0-6.7:	5.5-6.7:
	 	 			Wet	Wet	Wet	Wet				Wet	Wet
553D:	ĺ	į										į	
Branstad	C	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-4.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-5.5:
	ļ	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	ļ				2.0-6.7:	2.0-6.7:	3.0-6.7:	4.5-6.7:	ļ			4.0-6.7:	5.5-6.7:
					Wet	Wet	Wet	Wet				Wet	Wet

Table 25.--Soil Moisture Status by Depth--Continued

	Hydro- logic group	January	February	March	April	May	June	July	August	September	October	November	December
555A:	 	 											
Fordum	ם 	0.0-2.0: Moist 2.0-6.7: Wet	0.0-2.5: Moist 2.5-6.7: Wet	0.0-1.0: Moist 1.0-6.7: Wet	0.0-6.7: Wet 	0.0-6.7: Wet 	0.0-1.0: Moist 1.0-6.7: Wet	0.0-2.0: Moist 2.0-6.7: Wet	0.0-2.5: Moist 2.5-6.7: Wet	0.0-1.5: Moist 1.5-6.7: Wet	0.0-0.5: Moist 0.5-6.7: Wet	0.0-6.7: Wet 	0.0-0.5: Moist 0.5-6.7: Wet
557B:	 	 				l I							
Shawano	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
557C:	 	 											
Shawano	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
557D:													
Shawano	A 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
586A:	 					l I						l I	
Chelmo	р 	0.0-1.5: Moist 1.5-2.5: Wet 2.5-6.7: Moist	0.0-1.5: Moist 1.5-2.5: Wet 2.5-6.7: Moist	0.0-1.5: Moist 1.5-2.5: Wet 2.5-6.7: Moist	0.0-2.5: Wet 2.5-6.7: Moist 	0.0-2.5: Wet 2.5-6.7: Moist 	0.0-1.5: Moist 1.5-2.5: Wet 2.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.5: Moist 1.5-2.5: Wet 2.5-6.7: Moist	0.0-1.0: Moist 1.0-2.5: Wet 2.5-6.7: Moist	0.0-2.5: Wet 2.5-6.7: Moist 	0.0-0.5: Moist 0.5-2.5: Wet 2.5-6.7: Moist
600A:	 	 				l I							
Haplosaprists	_ D 	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.0: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7:
Psammaquents	ן ם 	 0.0-6.7: Wet	0.0-6.7: Wet	 0.0-6.0: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet
615B:	 	 		 								 	
Cress	A 	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
615C: Cress	 A	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist	 0.0-6.7: Moist

Table 25.--Soil Moisture Status by Depth--Continued

	Hydro- logic	January 	February	March	April	May	June	July	August	September	October	November	Decembe
soil name	group	İ	i	İ	i	i	i	i	İ	i	i	i	i
	i -	İ	i	i i	i	i	i	i	i	i	İ	i	i i
615D:	İ	İ	į	İ	İ	i	İ	i	j	İ	İ	ì	İ
Cress	A	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
		!	ļ	!			ļ	İ		!	ļ	ļ	
620C:													
Lundeen	D	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
Haustrup	l D	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:
nauscrup	D	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	 	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC
Rock outcrop.		i	i	i	1	1	i	i	i	i	i	ì	
-	i	İ	į	İ	İ	i	į	i	j	İ	İ	i	i
621A:		ĺ	İ	ĺ	ĺ	j	İ	İ	j	ĺ	ĺ	İ	İ
Bjorkland	D	0.0-3.5:	0.0-3.5:	0.0-4.5:	0.0-6.7:	0.0-6.7:	0.0-4.5:	0.0-3.5:	0.0-3.5:	0.0-3.5:	0.0-3.5:	0.0-3.5:	0.0-3.5:
		Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet
		3.5-6.7:	3.5-6.7:	4.5-6.7:			4.5-6.7:	3.5-6.7:	3.5-6.7:	3.5-6.7:	3.5-6.7:	3.5-6.7:	3.5-6.7:
		Moist	Moist	Moist			Moist	Moist	Moist	Moist	Moist	Moist	Moist
623A:												-	
Capitola	 B/D	 0.0-1.5:	0.0-1.5:	0.0-1.0:	0.0-2.5:	0.0-2.5:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-1.5:	0.0-1.0:	0.0-2.5:	0.0-0.5:
Capitola	ע/ם ן ו	Moist	Moist	Moist	Wet	Wet	Moist	Moist	Moist	Moist	Moist	Wet	Moist
	l I	1.5-2.5:	1.5-2.5:	1.0-2.5:	2.5-6.7:	2.5-6.7:	1.5-2.5:	MOISC	MOISC	1.5-2.5:	1.0-2.5:	2.5-6.7:	0.5-2.5:
		Wet	Wet	Wet	Moist	Moist	Wet			Wet	Wet	Moist	Wet
		2.5-6.7:	2.5-6.7:	2.5-6.7:			2.5-6.7:			2.5-6.7:	2.5-6.7:		2.5-6.7:
	i	Moist	Moist	Moist	i	i	Moist	i	İ	Moist	Moist	i	Moist
	İ			İ	İ	i		i	i	İ		i	
624A:	İ	İ	j	İ	j	j	İ	i	j	İ	İ	Ì	İ
Ossmer	C	0.0-3.0:	0.0-4.0:	0.0-2.5:	0.0-0.5:	0.0-1.0:	0.0-2.5:	0.0-3.5:	0.0-4.0:	0.0-3.0:	0.0-2.0:	0.0-2.0:	0.0-2.0:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
		3.0-6.7:	4.0-6.7:	2.5-6.7:	0.5-6.7:	1.0-6.7:	2.5-6.7:	3.5-6.7:	4.0-6.7:	3.0-6.7:	2.0-6.7:	2.0-6.7:	2.0-6.7:
		Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet
C213 .												1	
631A: Giese	 B/D	 0.0-1.5:	0.0-1.5:	0.0-1.0:	0.0-2.5:	0.0-2.5:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-1.5:	0.0-1.0:	0.0-2.5:	0.0-1.5:
GT686	ן עים ן	0.0-1.5: Moist	0.0-1.5: Moist	0.0-1.0: Moist	0.0-2.5: Wet	0.0-2.5: Wet	0.0-1.5: Moist	0.0-6./: Moist	0.0-6./: Moist	0.0-1.5: Moist	0.0-1.0: Moist	0.0-2.5: Wet	0.0-1.5: Moist
	l I	1.5-2.5:	1.5-2.5:	1.0-2.5:	2.5-6.7:	2.5-6.7:	1.5-2.5:	MOISC	MOISC	1.5-2.5:	1.0-2.5:	2.5-6.7:	1.5-2.5:
	l I	Wet	Wet	Wet	Moist	Moist	Wet			Wet	Wet	Moist	Wet
		2.5-6.7:	2.5-6.7:	2.5-6.7:	MOISC	MOISC	2.5-6.7:			2.5-6.7:	2.5-6.7:	MOISC	2.5-6.7:
	 	Moist	Moist	Moist	1	1	Moist	1	1	Moist	Moist		Moist

Table 25.--Soil Moisture Status by Depth--Continued

	Hydro- logic group	January 	February 	March 	April 	May 	June 	July 	August 	September 	October 	November 	Decembe
						1	1		ļ				
632A: Aftad	 B	 0.0-6.7:	0.0-6.7:	 0.0-6.7:	0.0-2.0:	0.0-3.0:	0.0-3.5:	0.0-5.5:	 0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-6.7:
AI CAG	5	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	İ				2.0-5.0:	3.0-6.7:	3.5-6.7:	5.5-6.7:				2.5-3.0:	
	į	İ	j	j	Wet	Wet	Wet	Wet	j	j	İ	Wet	j
					5.0-6.7:							3.0-6.7:	
					Moist							Moist	
632B:	 	 	1					l I				1	
Aftad	В	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-3.0:	0.0-3.5:	0.0-5.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-6.7:
	ĺ	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
					2.0-5.0:	3.0-6.7:	3.5-6.7:	5.5-6.7:				2.5-3.0:	
			ļ		Wet	Wet	Wet	Wet		ļ	!	Wet	
					5.0-6.7:							3.0-6.7:	
	l I	 	1		Moist	l I	l I	l I		I I	1	Moist	
632C:		 							i	i		ì	
Aftad	В	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-3.5:	0.0-5.0:	5.5-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Wet	Moist	Moist	Moist	Moist	Moist
					2.0-5.0:	3.5-6.7:	5.0-6.7:						
					Wet	Wet	Wet			ļ			
	 				5.0-6.7: Moist								
634C:	 	 											
Drylanding	D	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:
	į	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
Beartree	 D	 0.0-1.5:	0.0-1.5:	0.0-1.0:	0.0-1.5:	0.0-1.5:	0.0-1.0:	0.0-1.0:	0.0-1.5:	0.0-1.5:	0.0-1.5:	0.0-1.5:	0.0-1.5:
Deartice	2	Moist	Moist	Moist	Wet	Wet	Moist	Moist	Moist	Moist	Wet	Wet	Wet
	İ			1.0-1.5:			1.0-1.5:	1.0-1.5:					
	ĺ		İ	Wet			Wet	Wet	İ	İ		į	
Rock outcrop.	 	 											
6356							ļ					1	
635C: Drylanding	 D	 0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:
Diyianding	D	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	İ												
Beartree	D	0.0-1.5:	0.0-1.5:	0.0-1.0:	0.0-1.5:	0.0-1.5:	0.0-1.0:	0.0-1.0:	0.0-1.5:	0.0-1.5:	0.0-1.5:	0.0-1.5:	0.0-1.5:
		Moist	Moist	Moist	Wet	Wet	Moist	Moist	Moist	Moist	Wet	Wet	Wet
				1.0-1.5:			1.0-1.5:	1.0-1.5:					
		 		Wet			Wet	Wet		1		-	
Rock outcrop.	l I	 	1	 	1	-	1	l I		1	1	1	
		I .	1	1	1	1	1	1	1	1	1	1	1

Table 25.--Soil Moisture Status by Depth--Continued

	Hydro- logic group	January 	February	March 	April	May	June	July	August	September	October	November	December
648B:													
Sconsin	В	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-1.5: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
					1.5-2.5: Wet 2.5-6.7:						 		
					Moist								
669D:													
Fremstadt, stony	В	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:
- 1		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist
		i		j	i		i		1.0-6.7:	1.5-6.7:		i	
		į	į	į	į	į	į	İ	Moist	Moist	į	İ	į
Pomroy	С	0.0-6.7:	0.0-6.7:	0.0-3.5:	0.0-2.0:	0.0-3.5:	0.0-3.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
				3.5-4.0:	2.0-4.0:	3.5-4.0:	3.5-4.0:	1.0-6.7:	1.5-6.7:				
				Wet	Wet	Wet	Wet	Moist	Moist				
				4.0-6.7:	4.0-6.7:	4.0-6.7:	4.0-6.7:						
				Moist	Moist	Moist	Moist						
671B:						İ							
Spoonerhill,													
stony	A	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
					2.0-3.5:	2.5-3.5:						2.5-3.5:	
					Wet	Wet				ļ		Wet	
					3.5-6.7: Moist	3.5-6.7: Moist						3.5-6.7: Moist	
		İ			į	İ	İ		İ			j	
Spoonerhill	A	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
					2.0-3.5:	2.5-3.5:						2.5-3.5:	
					Wet	Wet				ļ		Wet	
					3.5-6.7:	3.5-6.7:						3.5-6.7:	
					Moist	Moist						Moist	
706A:		İ		İ	İ	i	İ		i		İ		İ
Winterfield	A/D	0.0-2.0:	0.0-2.0:	0.0-1.5:	0.0-0.5:	0.0-1.5:	0.0-2.0:	0.0-2.0:	0.0-2.0:	0.0-3.0:	0.0-3.0:	0.0-2.0:	0.0-2.0:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
		2.0-6.7:	2.0-6.7:	1.5-6.7:	0.5-6.7:	1.5-6.7:	2.0-6.7:	2.0-6.7:	2.0-6.7:	3.0-6.7:	3.0-6.7:	2.0-6.7:	2.0-6.7:
		Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet
Totagatic	D	0.0-2.0:	0.0-2.5:	0.0-1.0:		0.0-6.7:	0.0-1.0:	0.0-2.0:	0.0-2.5:	0.0-1.5:	0.0-0.5:	0.0-6.7:	0.0-0.5:
		Moist	Moist	Moist	Į.	Wet	Moist	Moist	Moist	Moist	Moist	Wet	Moist
		2.0-6.7:	2.5-6.7:	1.0-6.7:			1.0-6.7:	2.0-6.7:	2.5-6.7:	1.5-6.7:	0.5-6.7:		0.0-6.7:
		Wet	Wet	Wet			Wet	Wet	Wet	Wet	Wet		Wet

Table	25Soil	Moisture	Status	by	DepthContinued

	Hydro- logic group	January 	February 	March 	April 	May	June 	July 	August	September	October	November 	Decembe
							1		1	1	1	1	
715A:													
Mora	C	0.0-2.5:		0.0-1.5:	0.0-0.5:	0.0-1.0:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-3.0:	0.0-2.0:	0.0-1.0:	0.0-1.5:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
		2.5-3.5:	2.5-3.5:	1.5-3.5:	0.5-3.5:	1.0-3.5:	2.5-3.5:			3.0-3.5:	2.0-3.5:	1.0-3.5:	1.5-3.5:
		Wet	Wet	Wet	Wet	Wet	Wet			Wet	Wet	Wet	Wet
	 	3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist			3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist
	į	İ	j	İ	j	i	i	j	j	i	į	j	i
717B:													
Milaca	C	0.0-6.7:	1	0.0-6.7:	0.0-2.0:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
					2.0-3.5:	2.5-3.5:						2.5-3.5:	
					Wet	Wet						Wet	
	 	 			3.5-6.7: Moist	3.5-6.7: Moist						3.5-6.7: Moist	
717C:													
Milaca	l c	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	İ				2.0-3.5:	2.5-3.5:						2.5-3.5:	
	İ	İ	i	İ	Wet	Wet	İ	i	i	İ	i	Wet	i
	į	i		i	3.5-6.7:	3.5-6.7:			i		i	3.5-6.7:	i
	İ	į		į	Moist	Moist	į	į	į	į	į	Moist	į
720F:	 	 											
Haustrup	D	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:	0.0-1.0:
	 	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
Lundeen	l D	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:
	İ	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
Rock outcrop.	 	 		 									
726B:													
726B: Sissabagama	l I A	 0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-3.0:	0.0-3.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-4.0:	0.0-6.7:
oresanadama	A.	0.0-6./: Moist	0.0-6./: Moist	0.0-6.7: Moist	0.0-2.5:	0.0-3.0: Moist	0.0-3.5: Moist	Dry	Dry	0.0-6.7:	Moist	0.0-4.0: Moist	Moist
	l I	MOISC	MOISC	MOISC	2.5-5.0:	3.0-6.7:	3.5-6.7:		1.5-6.7:	Moist	MOISC	4.0-4.5:	MOISC
	İ	İ			Wet	Wet	Wet	Moist	Moist			Wet	
	İ	 			5.0-6.7:			5.5-6.7:	MOISC			4.5-6.7:	
	i	i		1	Moist			Wet	i i	1	1	Moist	i

Table 25.--Soil Moisture Status by Depth--Continued

Map symbol and soil name	Hydro- logic group	January 	February	March	April	May	June	July	August	September	October	November	Decembe
742B:													
/42B: Milaca	l l c	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-6.7:
milaca	•	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	i				2.0-3.5:	2.5-3.5:						2.5-3.5:	
	į	İ	İ	İ	Wet	Wet	i	j	i	İ	İ	Wet	İ
	ĺ				3.5-6.7:	3.5-6.7:		ļ				3.5-6.7:	
	ļ		ļ		Moist	Moist			ļ	1		Moist	
742C:	 				l I	l I							
Milaca	C	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-6.7:
	į	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	ĺ				2.0-3.5:	2.5-3.5:		ļ				2.5-3.5:	
					Wet	Wet						Wet	
					3.5-6.7:	3.5-6.7:						3.5-6.7:	
					Moist	Moist						Moist	
742D:	 												
Milaca	C	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
					2.0-3.5:	2.5-3.5:						2.5-3.5:	
					Wet	Wet						Wet	
	!				3.5-6.7:	3.5-6.7:						3.5-6.7:	
	 				Moist	Moist						Moist	
755A:													
Moppet	В	0.0-4.0:	0.0-4.0:	0.0-3.5:	0.0-2.5:	0.0-3.0:	0.0-3.5:	0.0-4.0:	0.0-4.5:	1	0.0-3.5:	0.0-3.0:	0.0-3.5:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	!	4.0-6.7:	4.0-6.7:	3.5-6.7:	2.5-6.7:	3.0-6.7:	3.5-6.7:	4.0-6.7:	4.5-6.7:	4.0-6.7:	3.5-6.7:	3.0-6.7:	3.5-6.7:
	 	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet
Fordum	ס	0.0-2.0:	0.0-2.5:	0.0-1.0:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-2.0:	0.0-2.5:	0.0-1.5:	0.0-0.5:	0.0-6.7:	0.0-0.5
		Moist	Moist	Moist	Wet	Wet	Moist	Moist	Moist	Moist	Moist	Wet	Moist
		2.0-6.7:	2.5-6.7:	1.0-6.7:			1.0-6.7:	2.0-6.7:	2.5-6.7:	1.5-6.7:	0.5-6.7:		0.5-6.7
		Wet	Wet	Wet			Wet	Wet	Wet	Wet	Wet		Wet
771A:													
Lenroot	A	0.0-4.0:	0.0-5.0:	0.0-3.5:	0.0-2.0:	0.0-2.5:	0.0-4.0:	0.0-0.5:	0.0-1.0:	0.0-4.0:	0.0-3.5:	0.0-3.0:	0.0-3.5:
		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
		4.0-6.7:	5.0-6.7:	3.5-6.7:	2.0-6.7:	2.5-6.7:	4.0-6.7:	0.5-4.5:	1.0-5.0:	4.0-6.7:	3.5-6.7:	3.0-6.7:	3.5-6.7:
		Wet	Wet	Wet	Wet	Wet	Wet	Moist	Moist	Wet	Wet	Wet	Wet
								4.5-6.7:	5.0-6.7:				
								Wet	Wet				

Table 25.--Soil Moisture Status by Depth--Continued

and	Hydro- logic group	January 	February 	March 	April 	May 	June 	July 	August 	September 	October 	November 	Decembe:
812B:		 											
Mora	С	0.0-2.5: Moist	0.0-2.5: Moist	0.0-1.5: Moist	0.0-0.5: Moist	0.0-1.0: Moist	0.0-2.5: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-3.0: Moist	0.0-2.0: Moist	0.0-1.0: Moist	0.0-1.5: Moist
İ		2.5-3.5: Wet	2.5-3.5: Wet	1.5-3.5: Wet	0.5-3.5: Wet	1.0-3.5: Wet	2.5-3.5: Wet	j		3.0-3.5: Wet	2.0-3.5: Wet	1.0-3.5: Wet	1.5-3.5: Wet
 		3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist			3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist	3.5-6.7: Moist
825A:													
Meehan	В	0.0-3.0: Moist 3.0-6.7:	0.0-4.0: Moist 4.0-6.7:	0.0-2.5: Moist 2.5-6.7:	0.0-0.5: Moist 0.5-6.7:	0.0-1.0: Moist 1.0-6.7:	0.0-2.5: Moist 2.5-6.7:	0.0-3.5: Moist 3.5-6.7:	0.0-4.0: Moist 4.0-6.7:	0.0-3.0: Moist 3.0-6.7:	0.0-2.0: Moist 2.0-6.7:	0.0-2.0: Moist 2.0-6.7:	0.0-2.0: Moist 2.0-6.7:
		3.0-6.7: Wet	Wet	Wet	Wet	Wet	Wet	3.5-6.7: Wet	Wet	Wet	2.0-6.7: Wet	2.0-6.7: Wet	2.0-6.7: Wet
896A:		 											
Wurtsmith 	A	0.0-4.0: Moist 4.0-6.0:	Moist	0.0-3.5: Moist 3.5-6.0:	0.0-2.0: Moist 2.0-6.0:	0.0-2.5: Moist 2.5-6.0:	0.0-4.0: Moist 4.0-6.7:	0.0-0.5: Dry 0.5-4.5:	0.0-1.0: Dry 1.0-5.0:	0.0-3.5: Moist 3.5-6.7:	0.0-2.5: Moist 2.5-6.7:	0.0-3.0: Moist 3.0-6.7:	0.0-3.5: Moist 3.5-6.7:
		Wet 	Wet	Wet 	Wet	Wet	Wet	Moist 4.5-6.7:	Moist 5.0-6.7:	Wet	Wet 	Wet	Wet
		 						Wet	Wet				
980A:		 							i	i			
Soderbeck 	D	0.0-2.5: Moist 2.5-4.0: Wet 4.0-6.7:	0.0-2.5: Moist 2.5-4.0: Wet 4.0-6.7:	0.0-1.5: Moist 1.5-4.0: Wet 4.0-6.7:	0.0-0.5: Moist 0.5-4.0: Wet 4.0-6.7:	0.0-1.0: Moist 1.0-4.0: Wet 4.0-6.7:	0.0-3.0: Moist 3.0-4.0: Wet 4.0-6.7:	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-3.5: Moist 3.5-4.0: Wet 4.0-6.7:	0.0-2.0: Moist 2.0-4.0: Wet 4.0-6.7:	0.0-1.0: Moist 1.0-4.0: Wet 4.0-6.7:	0.0-1.5: Moist 1.5-4.0: Wet 4.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist		1	Moist	Moist	Moist	Moist
1070C:		 											
Fremstadt 	A	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-1.5: Dry 1.5-6.0: Moist	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-6.0: Moist
Cress	A	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist	0.0-6.7: Moist
1070D:		 											
Fremstadt	A	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-1.5: Dry 1.5-6.0:	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-6.0: Moist 	0.0-6.0: Moist

Table 25.--Soil Moisture Status by Depth--Continued

Map symbol and soil name	Hydro- logic group	January 	February 	March 	April 	May 	June 	July 	August 	September 	October 	November	Decembe
1070D:												-	
Cress	l I A	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
Cress	A 	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
		MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC
1080B:		i	i	i	i	i	i	i	i	i	i	ì	
Spoonerhill	A	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-6.7:
-	İ	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	İ	i	i	i	2.0-3.5:	2.5-3.5:		i	i	i	j	2.5-3.5:	i
	İ	İ	İ	İ	Wet	Wet	i	į	j	i	İ	Wet	İ
	İ				3.5-6.7:	3.5-6.7:						3.5-6.7:	i
		İ	İ	ĺ	Moist	Moist	İ	j	j	İ	İ	Moist	İ
Spoonerhill,													
stony	A	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.5:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
					2.0-3.5:	2.5-3.5:						2.5-3.5:	
			!	!	Wet	Wet					!	Wet	
					3.5-6.7:	3.5-6.7:						3.5-6.7:	
					Moist	Moist						Moist	
Cress	l A	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
Cress	A	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
		MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC
2002.	 	i i	l I	l l					l I			i	I I
Udorthents,	 	i		i	i	i	i	i	i	i	i	ì	
earthen dams		i	i	i	i	i	i	i	i	i	i	ì	
	i	İ	i	İ	i		i	i	i	i	i	i	
2015.	İ	İ	İ	İ	i	i	i	i	İ	i	i	i	İ
Pits	İ	İ	İ	İ	i	i	i	i	İ	i	i	i	İ
	İ	İ	j	İ	j	j	İ	j	j	İ	İ	Ì	İ
2050.													
Landfill										1		1	
												1	
3011A:													
Barronett	B/D	0.0-1.5:	0.0-5.5:	0.0-1.0:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	1	0.0-1.5:	0.0-2.5:	0.0-0.5:
		Moist	Moist	Moist	Wet	Wet	Wet	Moist	Moist	Moist	Wet	Wet	Moist
		1.5-2.5:	5.5-6.7:	1.0-2.5:				2.0-6.7:	2.0-6.7:	1	1.5-4.0:	2.5-4.5:	0.5-2.5:
		Wet	Wet	Wet	!	!	ļ	Wet	Wet	Wet	Moist	Moist	Wet
		2.5-5.0:		2.5-6.7:								1	2.5-4.5:
		Moist	!	Moist	!	1	İ	İ	!	1	Wet	Wet	Moist
		5.0-6.7:											4.5-6.7:
		Wet											Wet

Table 25.--Soil Moisture Status by Depth--Continued

	Hydro- logic group	January	February	March	April	May	June	July	August 	September	October	November	December
3082E:	 	 									 		
Braham	B 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
Shawano	 A 	 0.0-6.7: Moist 	0.0-6.7: Moist 	 0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	 0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
3114A:	 	 				-	-					-	
Saprists	 D 	 0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet
Aquents	 D 	 0.0-6.7: Wet	0.0-6.7:	0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	 0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	0.0-6.7: Wet	0.0-6.7:
Aquepts	 D 	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet	 0.0-6.7: Wet
3125A:	 	 	1			İ	i			I I			
Meehan	A 	0.0-3.0: Moist 3.0-6.7: Wet	0.0-4.0: Moist 4.0-6.7: Wet	0.0-2.5: Moist 2.5-6.7: Wet	0.0-0.5: Moist 0.5-6.7: Wet	0.0-1.0: Moist 1.0-6.7: Wet	0.0-2.5: Moist 2.5-6.7: Wet	0.0-3.5: Moist 3.5-6.7: Wet	0.0-4.0: Moist 4.0-6.7: Wet	0.0-3.0: Moist 3.0-6.7: Wet	0.0-2.0: Moist 2.0-6.7: Wet	0.0-1.0: Moist 1.0-6.7: Wet	0.0-2.0: Moist 2.0-6.7: Wet
3126A:	İ		İ	İ	i	İ	i	j	i	İ	İ	İ	i
Wurtsmith	A 	0.0-4.0: Moist 4.0-6.7: Wet 	0.0-5.0: Moist 5.0-6.7: Wet 	0.0-3.5: Moist 3.5-6.7: Wet 	0.0-2.0: Moist 2.0-6.7: Wet 	0.0-2.5: Moist 2.5-6.7: Wet 	0.0-4.0: Moist 4.0-6.7: Wet 	0.0-0.5: Dry 0.5-4.5: Moist 4.5-6.7: Wet	0.0-1.0: Dry 1.0-5.0: Moist 5.0-6.7: Wet	0.0-4.0: Moist 4.0-6.7: Wet 	0.0-3.5: Moist 3.5-6.7: Wet 	0.0-3.0: Moist 3.0-6.7: Wet 	0.0-3.5: Moist 3.5-6.7: Wet
3312B: Glendenning,	 	 									 		
very stony	c 	0.0-2.5: Moist 2.5-5.5: Wet	0.0-2.5: Moist 2.5-5.5: Wet	0.0-1.5: Moist 1.5-5.5: Wet	0.0-0.5: Moist 0.5-5.5: Wet	0.0-1.0: Moist 1.0-5.5: Wet	0.0-3.0: Moist 3.0-5.5: Wet	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-3.5: Moist 3.5-5.5: Wet	0.0-2.0: Moist 2.0-5.5: Wet	0.0-1.0: Moist 1.0-5.5: Wet	0.0-1.5: Moist 1.5-5.5: Wet
	 	5.5-6.7: Moist	5.5-6.7: Moist	5.5-6.7: Moist	5.5-6.7: Moist	5.5-6.7: Moist	5.5-6.7: Moist			5.5-6.7: Moist	5.5-6.7: Moist	5.5-6.7: Moist	5.5-6.7: Moist

Table 25.--Soil Moisture Status by Depth--Continued

	Hydro- logic	January	February	March	April	May	June	July	August	September	October	November	Decembe
soil name	group			1			-				1		
SOII Hame	group	1	I	1	1	1	1	1	1	I	1	1	1
3312B:		 	 			1				I I	1	I I	
Glendenning	C	0.0-2.5:	0.0-2.5:	0.0-1.5:	0.0-0.5:	0.0-1.0:	0.0-3.0:	0.0-6.7:	0.0-6.7:	0.0-3.5:	0.0-2.0:	0.0-1.0:	0.0-1.5:
_		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
		2.5-5.5:	2.5-5.5:	1.5-5.5:	0.5-5.5:	1.0-5.5:	3.0-5.5:	i	i	3.5-5.5:	2.0-5.5:	1.0-5.5:	1.5-5.5:
		Wet	Wet	Wet	Wet	Wet	Wet	i	İ	Wet	Wet	Wet	Wet
		5.5-6.7:	5.5-6.7:	5.5-6.7:	5.5-6.7:	5.5-6.7:	5.5-6.7:			5.5-6.7:	5.5-6.7:	5.5-6.7:	5.5-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	į	į	Moist	Moist	Moist	Moist
3336A:		 											
Fenander	B/D	0.0-1.5:	0.0-5.5:	0.0-2.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-2.0:	0.0-2.0:	0.0-4.0:	0.0-1.5:	0.0-2.5:	0.0-0.5:
		Moist	Moist	Wet	Wet	Wet	Wet	Moist	Moist	Moist	Wet	Wet	Moist
		1.5-2.5:	5.5-6.7:	2.5-6.7:	i	i	i	2.0-6.7:	2.0-6.7:	4.0-6.7:	1.5-4.0:	2.5-4.5:	0.5-2.5:
		Wet	Wet	Moist	i	i	i	Wet	Wet	Wet	Moist	Moist	Wet
		2.5-5.0:	i	i	i	i	i	i	i	i	4.0-6.7:	4.5-6.7:	2.5-4.5:
		Moist	i	İ	İ	i	i	i	İ	i	Wet	Wet	Moist
		5.0-6.7:		j	i		j	i	i	j	j	j	4.5-6.7:
		Wet	į	į	į	į	į	į	į	į	į	į	Wet
3403A:		 											
Loxley	A/D	0.0-1.0:	0.0-1.0:	0.0-0.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-0.5:	0.0-0.5:	0.0-0.5:	0.0-6.7:	0.0-6.7:	0.0-0.5:
_		Moist	Moist	Moist	Wet	Wet	Wet	Moist	Moist	Moist	Wet	Wet	Moist
		1.0-6.7:	1.0-6.7:	0.5-6.7:	i	i	i	0.5-6.7:	0.5-6.7:	0.5-6.7:	j	j	0.5-6.7:
		Wet	Wet	Wet	į	į	į	Wet	Wet	Wet	į	į	Wet
Beseman	A/D	0.0-1.0:	0.0-1.0:	0.0-0.5:	 0.0-6.7:	 0.0-6.7:	0.0-6.7:	0.0-0.5:	0.0-0.5:	0.0-0.5:	0.0-6.7:	0.0-6.7:	0.0-0.5:
	•	Moist	Moist	Moist	Wet	Wet	Wet	Moist	Moist	Moist	Wet	Wet	Moist
		1.0-6.7:	1.0-6.7:	0.5-6.7:				0.5-6.7:	0.5-6.7:	0.5-6.7:			0.5-6.7:
		Wet	Wet	Wet	į	j	į	Wet	Wet	Wet	į	į	Wet
Dawson	A/D	 0.0-0.5:	0.0-0.5:	0.0-0.5:	0.0-6.7:	 0.0-6.7:	0.0-6.7:	0.0-0.5:	0.0-0.5:	0.0-0.5:	0.0-6.7:	0.0-6.7:	0.0-0.5:
	, -	Moist	Moist	Moist	Wet	Wet	Wet	Moist	Moist	Moist	Wet	Wet	Moist
		0.5-6.7:	0.5-6.7:	0.5-6.7:				0.5-6.7:	0.5-6.7:	0.5-6.7:			0.5-6.7:
		Wet	Wet	Wet	i	Ì		Wet	Wet	Wet			Wet
429B:													
Lara	C	0.0-6.7:	0.0-6.7:	0.0-3.0:	0.0-1.5:	0.0-3.0:	0.0-3.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
	Č	Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
			MOISC	3.0-4.0:	1.5-6.7:	3.0-5.0:	3.5-4.0:	1.0-6.7:	1.5-6.7:	MOISC			MOISC
		İ		Wet	Wet	Wet	Wet	Moist	Moist	i	i	i	
				4.0-6.7:		5.0-6.7:	4.0-6.7:	MOISC	MOISC	i	i	i	
		1	1	Moist	1	Moist	Moist	1	1	1	1	1	1

Table 25.--Soil Moisture Status by Depth--Continued

	Hydro- logic group	January	February	March	April	May 	June	July	August	September	October	November	December
3429C:	 	 							l I			1	
Lara	c 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-3.0: Moist 3.0-4.0: Wet	0.0-1.5: Moist 1.5-6.7: Wet	0.0-3.0: Moist 3.0-5.0: Wet	0.0-3.5: Moist 3.5-4.0: Wet	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
	 	 		4.0-6.7: Moist		5.0-6.7: Moist	4.0-6.7: Moist						
3446A:	! 	 											
Newson	D 	0.0-2.0: Moist 2.0-6.7: Wet	0.0-2.5: Moist 2.5-6.7: Wet	0.0-1.0: Moist 1.0-6.7: Wet	0.0-6.7: Wet 	0.0-6.7: Wet 	0.0-1.0: Moist 1.0-6.7: Wet	0.0-2.0: Moist 2.0-6.7: Wet	0.0-2.5: Moist 2.5-6.7: Wet	0.0-1.5: Moist 1.5-6.7: Wet	0.0-0.5: Moist 0.5-6.7: Wet	0.0-6.7: Wet 	0.0-0.5: Moist 0.5-6.7: Wet
3448B:	! 	! 				i							
Grettum	B 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.0: Moist 6.0-6.7: Wet	0.0-4.5: Moist 4.5-6.7: Wet	0.0-6.0: Moist 6.0-6.7: Wet	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
3448C:	 	 							l I				
Grettum	B 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.0: Moist 6.0-6.7: Wet	0.0-4.5: Moist 4.5-6.7: Wet	0.0-6.0: Moist 6.0-6.7: Wet	0.0-6.7: Moist 	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
3510B:	 	 											
Pomroy	C 	0.0-6.7: Moist 	Moist	0.0-3.5: Moist 3.5-4.0: Wet	0.0-2.0: Moist 2.0-4.0: Wet	0.0-3.5: Moist 3.5-4.0: Wet	0.0-3.5: Moist 3.5-4.0: Wet	0.0-1.0: Dry 1.0-6.7: Moist	0.0-1.5: Dry 1.5-6.7: Moist	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist
	 	 		4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist	4.0-6.7: Moist						
Fremstadt	 B 	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-1.0: Dry 1.0-6.7:	 0.0-1.5: Dry 1.5-6.7:	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-6.7: Moist
									Moist	Moist			
Fremstadt, stony	 B 	 0.0-6.7: Moist 	0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-6.7: Moist 	 0.0-1.0: Dry 1.0-6.7: Moist	 0.0-1.5: Dry 1.5-6.7: Moist	 0.0-6.7: Moist 	0.0-6.7: Moist 	0.0-6.7: Moist

	Hydro- logic	January 	February	March	April	May	June	July 	August 	September	October	November	Decembe
soil name	group			1	1		1	1	1			1	
3510C:													
Pomroy	C	0.0-6.7:	0.0-6.7:	0.0-3.5:	0.0-2.0:	0.0-3.5:	0.0-3.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
				3.5-4.0:	2.0-4.0:	3.5-4.0:	3.5-4.0:	1.0-6.7:	1.5-6.7:				
				Wet	Wet	Wet	Wet	Moist	Moist				
				4.0-6.7:	4.0-6.7:	4.0-6.7:	4.0-6.7:						
				Moist	Moist	Moist	Moist						
Fremstadt	 B	 0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:
	İ	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist
	İ		i	i	i	i	i	i	1.0-6.7:	1.5-6.7:	i	i	
	j	j	j	İ	j	j	j	į	Moist	Moist	İ	j	j
Fremstadt, stony	В	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist
									1.0-6.7:	1.5-6.7:			
	 	 							Moist	Moist		l I	
3511A:	 	 				1				İ			
Bushville	C	0.0-3.0:	0.0-6.7:	0.0-2.5:	0.0-0.5:	0.0-1.0:	0.0-2.5:	0.0-3.0:	0.0-6.7:	0.0-2.5:	0.0-2.0:	0.0-2.0:	0.0-2.0:
	ĺ	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	ĺ	3.0-3.5:		2.5-3.5:	0.5-3.5:	1.0-3.5:	2.5-3.5:	3.0-3.5:		2.5-3.5:	2.0-3.5:	2.0-3.5:	2.0-3.5:
		Wet		Wet	Wet	Wet	Wet	Wet		Wet	Wet	Wet	Wet
		3.5-6.7:		3.5-6.7:	3.5-6.7:	3.5-6.7:	3.5-6.7:	3.5-6.7:		3.5-6.7:	3.5-6.7:	3.5-6.7:	3.5-6.7:
		Moist		Moist	Moist	Moist	Moist	Moist		Moist	Moist	Moist	Moist
3516A:	 	 		 	1	[-					1		
Slimlake	l B	0.0-4.5:	0.0-5.5:	0.0-4.0:	0.0-2.5:	0.0-3.0:	0.0-4.5:	0.0-5.0:	0.0-5.5:	0.0-4.5:	0.0-4.0:	0.0-3.5:	0.0-4.0:
	, <u> </u>	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
	l I	4.5-6.7:	5.5-6.7:	4.0-6.7:	2.5-6.7:	3.0-6.7:	4.5-6.7:	5.0-6.7:	5.5-6.7:	4.5-6.7:	4.0-6.7:	3.5-6.7:	4.0-6.7:

Table 25.--Soil Moisture Status by Depth--Continued

33100.			1	1	1	1	1	1	1	1	I	1	
Pomroy	C	0.0-6.7:	0.0-6.7:	0.0-3.5:	0.0-2.0:	0.0-3.5:	0.0-3.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
				3.5-4.0:	2.0-4.0:	3.5-4.0:	3.5-4.0:	1.0-6.7:	1.5-6.7:				
				Wet	Wet	Wet	Wet	Moist	Moist				
				4.0-6.7:	4.0-6.7:	4.0-6.7:	4.0-6.7:						
				Moist	Moist	Moist	Moist						
Fremstadt	В	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist
									1.0-6.7:	1.5-6.7:			
									Moist	Moist			
Fremstadt, stony	В	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:
- i		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist
i		i	i	i	i	i	i		1.0-6.7:	1.5-6.7:	j	i	i
		į	į	į	į	j	į	į	Moist	Moist	į	į	į
3511A:						}							
Bushville	С	0.0-3.0:	0.0-6.7:	0.0-2.5:	0.0-0.5:	0.0-1.0:	0.0-2.5:	0.0-3.0:	0.0-6.7:	0.0-2.5:	0.0-2.0:	0.0-2.0:	0.0-2.0:
i		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
i		3.0-3.5:	i	2.5-3.5:	0.5-3.5:	1.0-3.5:	2.5-3.5:	3.0-3.5:	i	2.5-3.5:	2.0-3.5:	2.0-3.5:	2.0-3.5:
i		Wet	j	Wet	Wet	Wet	Wet	Wet	i	Wet	Wet	Wet	Wet
i		3.5-6.7:	i	3.5-6.7:	3.5-6.7:	3.5-6.7:	3.5-6.7:	3.5-6.7:		3.5-6.7:	3.5-6.7:	3.5-6.7:	3.5-6.7:
		Moist	į	Moist	Moist	Moist	Moist	Moist	į	Moist	Moist	Moist	Moist
3516A:						}							
Slimlake	В	0.0-4.5:	0.0-5.5:	0.0-4.0:	0.0-2.5:	0.0-3.0:	0.0-4.5:	0.0-5.0:	0.0-5.5:	0.0-4.5:	0.0-4.0:	0.0-3.5:	0.0-4.0:
i		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
i		4.5-6.7:	5.5-6.7:	4.0-6.7:	2.5-6.7:	3.0-6.7:	4.5-6.7:	5.0-6.7:	5.5-6.7:	4.5-6.7:	4.0-6.7:	3.5-6.7:	4.0-6.7:
		Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet
3625A:													
Lino	A	0.0-3.0:	0.0-4.0:	0.0-2.5:	0.0-0.5:	0.0-1.0:	0.0-2.5:	0.0-3.5:	0.0-4.0:	0.0-3.0:	0.0-2.0:	0.0-2.0:	0.0-2.0:
		Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist	Moist
i		3.0-6.7:	4.0-6.7:	2.5-6.7:	0.5-6.7:	1.0-6.7:	2.5-6.7:	3.5-6.7:	4.0-6.7:	3.0-6.7:	2.0-6.7:	2.0-6.7:	2.0-6.7:
		Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet	Wet
3626A:													
Crex	В	0.0-4.0:	0.0-5.0:	0.0-3.5:	0.0-2.0:	0.0-2.5:	0.0-4.0:	0.0-0.5:	0.0-1.0:	0.0-4.0:	0.0-3.5:	0.0-4.0:	0.0-3.5:

Moist

Wet

Moist

Wet

4.0-6.7: |5.0-6.7:

Moist

3.5-6.7:

Wet

Moist

2.0-6.7:

Wet

Moist

Wet

2.5-6.7:

Moist

Wet

Dry

Wet

Moist

4.5-6.7:

4.0-6.7: | 0.5-4.5:

Dry

1.0-5.0:

Moist

5.0-6.7:

Wet

Moist

4.0-6.7:

Wet

Moist

3.5-6.7:

Wet

Moist

Wet

4.0-6.7:

Moist

3.5-6.7:

Wet

Table 25.--Soil Moisture Status by Depth--Continued

Map symbol and soil name	Hydro- logic group	January 	February 	March 	April	May 	June	July 	August	September 	October	November	Decembe
3629B:						1							
3629B: Perida	3	0.0-6.7:	0.0-6.7:	0.0-5.5:	0.0-3.5:		0.0-5.5:	0.0-1.0:	0.0-1.5:	0.0-6.7:	0.0-6.7:	0.0-6.7:	0.0-6.7:
Perida	A	Moist	Moist	Moist	Moist	0.0-5.5: Moist	Moist	Dry	Dry	Moist	Moist	Moist	0.0-6.7:
		MOIST	Moist	5.5-6.0:	3.5-6.0:	Moist 5.5-6.0:	5.5-6.0:	Dry 1.0-6.7:	1.5-6.7:	Moist	Moist	Moist	Moist
				3.5-6.0:	3.5-6.0:	Wet	3.5-6.0: Wet	Moist	Moist				
				6.0-6.7:	wet 6.0-6.7:	Wet 6.0-6.7:	Wet 6.0-6.7:	Moist	MOIST			\	
				Moist	Moist	0.0-6.7:	Moist						
	 		l I	MOIST	MOIST	MOIST	MOIST	l I					I I
3636B:	l I	1					l I			İ	1	1	
Plainbo	В	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-1.0:	0.0-1.0:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:
	İ	Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
	į I			 				1.0-2.5: Moist	1.0-2.5: Moist		i		j
3636C:													
Plainbo	 в	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-1.0:	0.0-1.0:	0.0-2.5:	0.0-2.5:	0.0-2.5:	0.0-2.5:
FIAIIDO	P	Moist	Moist	Moist	Moist	Moist	Moist	Dry	Dry	Moist	Moist	Moist	Moist
	 	MOISC	MOISC	MOISC	MOISC	MOISC	MOISC	1.0-2.5:	1.0-2.5:	MOISC	MOISC	MOISC	MOISC
	 							Moist	Moist				
	 							MOISC	MOISC				
M-W.			i		i	1	i		i	i		ì	
Miscellaneous	İ	Ì	į	İ	İ	j	i	İ	j	i	İ	į	İ
water	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
										ļ		[
W.		1		1	1	1		1	1	1	1		1
Water				1		1							

Table 26.--Flooding Frequency and Duration

(See text for definitions of terms used in this table. Absence of an entry indicates that data were not estimated)

		1	1	I	I	I	I	1	I	I	I	
Map symbol and	 January 	February	March	 April 	May	June	July	August	 September	 October 	 November 	 Decembe:
soil name			1	<u> </u>		1					<u> </u>	
3A:	!	ļ	!		!							
Totagatic	1	Rare	Occasional	-	Frequent	Occasional		Rare	1	Occasional		
	Brief	Brief	Brief	Long	Long	Brief	Brief	Brief	Brief	Brief	Brief	Brief
Bowstring	Pare	Rare	Occasional	Frequent	Frequent	Occasional	 Pare	Rare	Occasional	 Occasional	 Occasional	Dare
Dombering	Brief	Brief	Long	Long	Long	Long	Brief	Brief	Brief	Brief	Brief	Brief
Ausable	Rare	Rare	Occasional	Frequent	Frequent	Occasional	Rare	Rare	Occasional	Occasional	Occasional	Rare
	Brief	Brief	Long	Long	Long	Long	Brief	Brief	Brief	Brief	Brief	Brief
12A:												
Makwa		Rare	Occasional	_	Frequent	Occasional		Rare	1	Occasional		
	Brief	Brief	Long	Long	Long	Long	Brief	Brief	Brief	Brief	Brief	Brief
22A:		1		 	1	I I	 		I I	 	 	
Comstock	None	None	None	None	None	None	None	None	None	 None	 None	None
	İ	İ										
27A:	į	İ	İ	İ	İ	İ	İ	j	į	İ	İ	
Scott Lake	None	None	None	None	None	None	None	None	None	None	None	None
	!							ļ				
28B:		-										
Haugen, very	None	Mone	Mone	None	None	None	None	None	None	 None	 None	None
stony	None	None	None	None	None	None	None	None	None	None	None 	None
Haugen	None	None	None	None	None	None	None	None	None	 None	 None	None
	İ	İ										
Rosholt, very	į	j	İ	İ	İ	İ	İ	İ	İ	İ	İ	ĺ
stony	None	None	None	None	None	None	None	None	None	None	None	None
	1											
Rosholt	None	None	None	None	None	None	None	None	None	None	None	None
200.				 			 			 	 	
28C: Haugen, very	l I	1	1	 		I I	 		I I	l I	l I	
stony	None	None	None	 None	None	None	None	None	None	 None	 None	None
200												
Haugen	None	None	None	None	None	None	None	None	None	None	None	None
	İ	Ì	İ	ĺ		İ	ĺ	İ		ĺ	ĺ	
Rosholt, very												
stony	None	None	None	None	None	None	None	None	None	None	None	None
D				 			 • • • • • • • • • • • • • • • • • •					
Rosholt	None	None	None	None	None	None	None	None	None	None	None	None
38A:	I I	1	1	 	I I	I I	l I	I I	I	 	 	
Rosholt	 None	None	None	 None	None	None	 None	None	None	 None	 None	 None

Table 26.--Flooding Frequency and Duration--Continued

	1	1	1	1			1	1		1	1	
Map symbol and	 January 	 February 	 March 	 April 	 May 	 June 	 July 	 August 	 September 	 October 	 November 	December
soil name	<u> </u>	<u> </u>	<u> </u>	<u> </u> 	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1
38B: Rosholt	 None 	 None 	 None 	 None 	 None	 None	 None	 None	 None	 None 	 None 	 None
38C: Rosholt	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
38D: Rosholt	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
42D: Amery	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
43B: Antigo	 None	 None 	 None 	 None 	 None 	 None 	 None 	 None	 None 	 None 	 None 	 None
43C: Antigo	 None	 None 	 None 	 None 	 None 	 None 	 None 	 None	 None 	 None 	 None 	 None
63A: Crystal Lake	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
63B: Crystal Lake	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
63C: Crystal Lake	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
64A:	! 	İ	İ	 	 	 	 	l I	 	l I	! 	
Totagatic	 Rare Brief	Rare Brief	Occasional Brief	 Frequent Long	 Frequent Long	Occasional	 Rare Brief	 Rare Brief	Occasional	Occasional Brief	Occasional Brief	Rare Brief
Winterfield	 Rare Brief	 Rare Brief	Occasional	 Frequent Long	 Occasional Brief	 Occasional Brief	 Occasional Brief	Occasional Brief	 Occasional Brief	 Occasional Brief	 Occasional Brief	Rare Brief
69C:	i I	i	i	! 	! 	! 	! 	i i	 	i	i I	
Keweenaw	None	None	None	None	None	None	None	None	None	None	None	None
Sayner	 None	None	None	 None	 None	 None	None	None	 None	None	 None	None
Vilas	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	None
69E:	 	 	[[
Keweenaw	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	None
Sayner	 None	 None	 None	 None	 None	 None	 None	 None	None	 None	 None	None
Vilas	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None

Table 26.--Flooding Frequency and Duration--Continued

Map symbol and soil name	January 	February 	March 	April 	May 	June 	July 	August	September 	October 	November	December
2B:	 		[[[[
Cutaway	None	None	None	None	None	None	None	None	None	None	None	None
Branstad	None	None	 None	None	None	None	None	None	 None	None	None	None
2C:										 		
Cutaway	None	None	None	None	None	None	None	None	None	None	None	None
Branstad	None	None	 None	None	None	 None	None	None	 None	 None	None	None
3A:										 		
Smestad	None	None	None	None	None	None	None	None	None	None	None	None
5B:			 									
Taylor	None	None	None	None	None	None	None	None	None	None	None	None
5C:										 		
Taylor	None	None	None	None	None	None	None	None	None	None	None	None
6A:			 							 		
Indus	None	None	None	None	None	None	None	None	None	None	None	None
Alango	None	None	 None	None	None	 None	None	None	 None	 None	None	None
9A:			 									
Wildwood	None	None	None	None	None	None	None	None	None	None	None	None
6B:												
Karlsborg	None	None	None	None	None	None	None	None	None	None	None	None
6C:												
Karlsborg	None	None	None	None	None	None	None	None	None	None	None	None
6D:										 		
Karlsborg	None	None	None	None	None	None	None	None	None	None	None	None
00B:			 							 		
Menahga	None	None	None	None	None	None	None	None	None	None	None	None
00C:									 	 		
Menahga	None	None	None	None	None	None	None	None	None	None	None	None
00D:									 	 		
Menahga	None	None	None	None	None	None	None	None	None	None	None	None

Table 26.--Flooding Frequency and Duration--Continued

	<u> </u>	1							<u> </u>			1
Map symbol and	January	February	March	April	May	June	July	August	September	October	November	December
soil name			1		<u> </u>	<u> </u>	<u> </u>	1	<u> </u>		<u> </u>	
120B: Kost	None	None	None	None	None	None	 None	None	 None	None	None	None
KOSC	None	None	None	None	None	None	None	None	None	None	None	None
127D:		İ	İ		İ	İ	İ	İ	İ	İ	i	
Amery	None	None	None	None	None	None	None	None	None	None	None	None
Rosholt	 None	None	None	None	 None	 None	 None	None	 None	 None	 None	None
127E:	 		I I		 	 	l I	I I	 	I I	1	
Amery	None	None	None	None	None	None	None	None	None	None	None	None
	ĺ	İ	İ	İ	İ	İ	Ì	İ	İ	İ	İ	İ
Rosholt	None	None	None	None	None	None	None	None	None	None	None	None
151A:	 		I I		 	 	l I	I I	 	I I	1	
Bluffton	None	None	None	None	None	None	None	None	None	None	None	None
	İ	j	İ	İ	İ	İ	Ì	İ	İ	İ	İ	İ
152A:							[
Alstad	None	None	None	None	None	None	None	None	None	None	None	None
154E:	 				i	i	ì				i	
Cushing	None	None	None	None	None	None	None	None	None	None	None	None
		!	!		!	!	ļ	!	İ	!	!	
156B: Magnor, very	 		1				l I	1	l I	 		
stony	 None	None	None	None	None	None	None	None	None	None	None	None
•	İ	j	İ	İ	İ	İ	į	İ	į	j	İ	İ
Magnor	None	None	None	None	None	None	None	None	None	None	None	None
157B:	 											
Freeon, very	 		1				1	1	 	I I		
stony	None	None	None	None	None	None	None	None	None	None	None	None
		İ	!		ļ.	ļ.	ļ	!	ļ	!	ļ.	
Freeon	None	None	None	None	None	None	None	None	None	None	None	None
157C:	 		1					1	 	l I		
Freeon, very		i	İ		i	i	İ	İ	İ	İ	i	
stony	None	None	None	None	None	None	None	None	None	None	None	None
_												
Freeon	None 	None	None	None	None	None	None	None	None	None	None	None
160A:		1			i	i						
Oesterle	None	None	None	None	None	None	None	None	None	None	None	None
					ļ	ļ						
165B: Elderon	None	None	None	None	 None	 None	 None	None	 None	None	None	None
TTGSTOIL	1 140116	140116	140116	140116	140116	140116	140116	140116	140116	140116	140116	HOHE

Map symbol and soil name	 January 	 February 	 March 	 April 	 May 	 June 	 July 	 August 	 September 	 October 	 November 	December
	I	1	1	I	I	I			I	I	I	
185B:		ļ	ļ		[[ļ.				!
Tradelake	None	None	None	None	None	None	None	None	None	None	None	None
Taylor	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None
185C:	İ	i	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
Tradelake	None	None	None	None	None	 None 	None	None	None	 None 	 None 	None
Taylor	 None	None	None	None	None	 None	None	 None	None	 None	 None	None
185D:	i I	ì	ì		İ	i I	i I	İ		i I	i I	İ
Tradelake	None	None	None	None	None	None	None	None	None	None	None	None
Taylor	 None	None	None	None	None	 None	None	 None	None	 None	 None	None
185E:	l I	l I	l I	 	 	l I	l I	l I	 	l I	l I	I I
Tradelake	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	None
Taylor	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	None
189A:	l I	l I	l I	 	I I	l I	l I	l I	 	l I	l I	I I
Siren	 None	None	None	 None	 None	 None	 None	 None	 None	 None	 None	None
193A:	l I		1	 	 	 	 	 	 	 	 	1
Minocqua	None	None	None	None	None	None	None	None	None	None	None	None
337A:	 	 	 	 	 	 	 	 	 	 	 	1
Plover	 None	None	None	None	None	 None	None	None	None	 None	 None	None
368B:	i I	ì	ì		İ	i I	i I	İ		i I	i I	İ
Mahtomedi	None	None	None	None	None	None	None	None	None	None	None	None
Cress	 None	None	None	None	None	 None	None	None	None	 None	 None	None
368C:	l I	l I	l I	 	I I	l I	l I	l I	 	l I	l I	I I
Mahtomedi	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	None
Cress	 None	None	None	 None	 None	 None	 None	 None	 None	 None	 None	None
368D:	 					 	 	l I		 	 	1
Mahtomedi	 None	 None	None	 None	 None	 None	 None	 None	 None	 None	 None	None
Cress	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	None

Table 26.--Flooding Frequency and Duration--Continued

Table 26.--Flooding Frequency and Duration--Continued

	1	1		I	1	1	1	1	I	1	1	1
Map symbol and	 January 	 February	March	 April 	 May 	 June 	 July 	 August 	 September 	 October 	 November 	 December
soil name		1	1			[1	[
								1	[
368E:	!	!			!	!		ļ	!	!	!	[
Mahtomedi	None	None	None	None	None	None	None	None	None	None	None	None
Cress	 None 	 None	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None
380B:	İ	İ	İ	İ	İ	İ	İ	İ	i	İ	İ	İ
Cress	None	None	None	None	None	None	None	None	None	None	None	None
Rosholt	 None	None	 None	 None	 None	 None	 None	None	 None	 None	 None	 None
380C:	I I		1	 	I I	I I	1	l I	 	I I	I I	
Cress	None	None	None	 None	None	None	None	None	None	None	None	None
Rosholt	None	None	None	 None 	None	None	None	None	None	None	None	None
380D:								[[
Cress	None	None	None	None	None	None	None	None	None	None	None	None
Rosholt	 None 	None	 None	 None 	 None 	 None 	 None 	 None	 None	 None 	 None 	 None
383B:	İ			! 	İ	İ		ì	İ	İ	İ	İ
Mahtomedi	 None 	None	None	 None 	 None 	 None 	None	None	None	 None 	 None 	None
383C:	į	İ	į	İ	į	į	İ	į	İ	į	į	į
Mahtomedi	None	None	None	None	None	None	None	None	None	None	None	None
	!							ļ	!			
383D: Mahtomedi		None	None	 None	None	 None	None	None	 None	None	None	None
Mancomedi	None	None	None	None	None	None	None	None	None	None	None	None
392C:	İ			! 	İ	İ		ì	İ	İ	İ	İ
Rockmarsh	None	None	None	None	None	None	None	None	None	None	None	None
Dairyland	None	None	None	None	None	None	None	None	None	None	None	None
Makwa	 None	None	None	 None	 None	 None	 None	 None	 None	 None	 None	 None
396B:	İ			! 	İ	İ		İ		İ	İ	1
Friendship	None	None	None	None	None	None	None	None	None	None	None	None
-	İ	į	İ	İ	İ	İ	İ	į	i	İ	İ	İ
Wurtsmith	None	None	None	None	None	None	None	None	None	None	None	None
	ļ.	!	!		!	ļ.	!	ļ	ļ	!	!	!
Grayling	None	None	None	None	None	None	None	None	None	None	None	None
397A:	I I	1	1	 	I I	I I		I I	I I	I I	I I	I I
Perchlake	 None	None	None	 None	None	None	None	None	None	None	None	None

Map symbol and soil name	 January 	 February 	 March 	 April 	 May 	 June 	 July 	 August 	 September 	October	 November 	December
	1		1					1	1			Ī
399B:	ĺ	İ	Ì	İ	İ	İ	İ	Ì			İ	İ
Grayling	None	None	None	None	None	None						
	!		ļ			ļ		ļ		!	ļ	ļ
399C:												
Grayling	None	None	None	None	None	None						
399D:	 						1			1		
Grayling	None	None	None	None	None	None						
3	İ					İ					İ	İ
406A:	į	İ	j	İ	j	į	İ	į	İ	İ	į	Ì
Loxley	None	None	None	None	None	None						
	!		ļ			ļ		ļ		!	ļ	ļ
407A:												
Seelyeville	None	None	None	None	None	None						
Markey	None	None	None	None	None	None						
410A:	İ	İ	İ	i	İ	İ	İ	İ	İ	i		
Seelyeville	None	None	None	None	None	None						
Cathro	None	None	None	None	None	None						
419A:	1						1					
Seelyeville	None	None	None	None	None	None						
beeryeville	None	Hone		Hone	Hone	l						None
Cathro	None	None	None	None	None	None						
	į	j	j	İ	j	İ	İ	Ì	İ	İ	į	Ì
Markey	None	None	None	None	None	None						
	[Ţ
421A:												
Dora	None	None	None	None	None	None						
Markey	None	None	None	None	None	None						
narncy												
Seelyeville	None	None	None	None	None	None						
	ĺ	İ	Ì	İ	İ	İ	İ	Ì			İ	İ
422A:	[Į	Ţ		Į.	[Ţ			Į	
Seelyeville	None	None	None	None	None	None						
a.th			 None		None o	 Warra	None o	None o	Non e	Name a	 Warra	
Cathro	None	None	None	None	None	None						
Rondeau	None	None	None	None	None	None						
	1	1	1	1	1	1	T. Control of the Con	1	1	1	1	1

Table 26.--Flooding Frequency and Duration--Continued

Table 26.--Flooding Frequency and Duration--Continued

Map symbol and soil name	 January 	 February 	 March 	 April 	 May 	 June 	 July 	 August 	 September 	 October 	 November 	 December
426B:												
Emmert	 None	None	None	 None	None	 None	None	None	 None	 None	None	None
Mahtomedi	 None	None	None	None	None	 None	None	 None	None	 None	 None	None
Menahga	 None	None	None	 	 None	 None	None					
426D:	 		 	 	 	 	 	 	 	 	 	
Emmert	None	None	None	None	None	None	None	None	None	None	None	None
Mahtomedi	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
Menahga	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
430A:	 			 		 	 		 			
Freya	None	None	None	None	None	None	None	None	None	None	None	None
439B:		İ									İ	
Graycalm	None	None	None	None	None	None	None	None	None	None	None	None
Menahga	 None 	None	None	 None	 None	 None 	 None 	 None 	 None	 None 	 None	 None
439C:		İ			İ					İ	İ	
Graycalm	None	None	None	None	None	None	None	None	None	None	None	None
Menahga	 None	None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
439D:	 			 		 	 		 			
Graycalm	None	None	None	None	None	None	None	None	None	None	None	None
Menahga	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None 	 None	 None
442C:	 	! 		 		 	 	 	 	! 		
Haugen	None	None	None	None	None	None	None	None	None	None	None	None
Greenwood	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None

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Map symbol and soil name	 January 	 February 	 March 	 April 	 May 	 June 	 July 	 August 	 September 	 October 	 November 	 December
	i i	1	1	<u> </u> 	i I	<u> </u> 	İ	İ	<u> </u>	i I	l	1
443D:	 			 	 	I I	ľ	ŀ		 	l I	1
Amery	None	None	None	 None	None	 None	None	None	None	None	 None	None
Amery	None	None	None	None	None	None	None			None	None	
Greenwood	 None	None	None	 None	 None	 None 	 None	 None	 None	 None	 None 	 None
459A:	1			 	 	I I				 	I I	
Loxley	None	None	None	None	None	None	None	None	None	None	 None	None
DOXIEY	None	None	None	None	None	None	None			None	None	
Daisybay	None	None	None	 None	 None	 None	 None	 None	 None	 None	 None	None
Dawson	None	None	None	 None	 None	 None	 None	None	None	 None	 None	None
Dawson	None	None	None	None	None	None	None	None	None	None	None	None
461A:	l I	l I	1	l I	 	l I	l I	l I	 	 	l I	I I
Bowstring	Paro	Rare	Occasional	 Eroguent	Frequent	 Occasional	Paro	Rare	000001	Occasional	 0aaaaional	Paro
Bowstring	Brief	Brief	:	: -	-	!	Brief	Brief	Brief	Brief	Brief	Brief
	Prier	Prier	Long	Long	Long	Long	prier	prier	Prier	prier	 prier	Prier
465A:	l I	l I	1	l I	 	l I	l I	l I	 	 	l I	I I
Newson	None	None	None	 None	 None	 None	 None	None	 None	 None	 None	None
Newson	None	None	None	None	None	None	None	None	None	None	None	None
Meehan	None	None	None	 None	 None	 None	 None	 None	 None	 None	 None	None
Modium												
469E:	İ	İ	İ	! 	İ	l I	İ	İ		İ	l I	İ
Bigisland	None	None	None	None	None	None	None	None	None	None	None	None
22322444												
Milaca	None	None	None	 None	None	 None	None	None	None	None	 None	None
MIIGG												
471B:	İ	İ	İ	! 	İ	l I	İ	İ		İ	l I	İ
Dairyland	None	None	None	None	None	None	None	None	None	None	None	None
24117 14114												
Emmert	None	None	None	 None	None	 None	None	None	None	None	 None	None
471C:	İ	İ	İ	! 	İ	l I	İ	İ		İ	l I	İ
Dairyland	None	None	None	None	None	None	None	None	None	None	None	None
24117 14114												
Emmert	None	None	None	 None	None	None	None	None	None	None	None	None
472A:				! 	İ	i I	i	i		İ	i I	
Rockmarsh	Rare	Rare	Occasional	Frequent	Occasional	Occasional	Occasional	Occasional	Occasional	Occasional	Occasional	Rare
	Brief	Brief	Brief	Long	Brief	Brief	Brief	Brief	Brief	Brief	Brief	Brief
			21101					21101				
Clemens	Rare	Rare	Occasional	Frequent	Occasional	Occasional	Occasional	Occasional	Occasional	Occasional	Occasional	Rare
CIGMEND	Brief	Brief	Brief	Long	Brief	Brief	Brief	Brief	Brief	Brief	Brief	Brief
	 prier	DITEL	DITEL	l	PITEL	 prier	PITEL	prier	DITEL	PITEL	 prier	prier
	1	1	1	I	I	I	1	1		I	I	1

Table 26.--Flooding Frequency and Duration--Continued

Table 26.--Flooding Frequency and Duration--Continued

	_											
Map symbol and	January	February	March	April	May	June	July	August	September	October	November	Decembe:
soil name												İ
ļ.		!	[Ţ	!		!	[<u> </u>	[[!
473A:	N	Non-	Non-		Non a	Non a		Non a		Non a	Non a	
Dairyland	None	None	None	None	None	None	None	None	None	None	None	None
Skog	None	None	None	Rare Brief	None	None	None	None	None	None	None	None
484A:												
Greenwood	None	None	None	None	None	None	None	None	None	None	None	None
D												137
Beseman	None	None	None	None	None	None	None	None	None	None	None	None
485C:		i		İ	İ	İ		İ				į
Lupton	None	None	None	None	None	None	None	None	None	None	None	None
 Tawas	None	None	None	None	None	None	None	None	 None	None	None	None
	110110											
495B:		İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
Karlsborg	None	None	None	None	None	None	None	None	None	None	None	None
Grettum	None	None	None	None	None	None	None	None	None	None	None	None
İ												
Perida	None	None	None	None	None	None	None	None	None	None	None	None
495C:						 	 		 			l I
Karlsborg	None	None	None	None	None	None	None	None	None	None	None	None
İ		İ	İ	İ	İ	İ	ĺ	İ	İ	Ì	Ì	İ
Grettum	None	None	None	None	None	None	None	None	None	None	None	None
 Perida	None	None	None	None	None	None	None	None	None	None	None	None
į												
495D:		!		İ	!			!				
Karlsborg	None	None	None	None	None	None	None	None	None	None	None	None
Grettum	None	None	None	None	None	None	None	None	None	None	None	None
į		i	İ	j	į	İ	İ	İ	İ	İ	İ	į
Perida	None	None	None	None	None	None	None	None	None	None	None	None
496B:					I I		l I	I I	 	I I	I I	l I
Karlsborg	None	None	None	None	None	None	None	None	None	None	None	None
į				İ	ļ		ļ		[ļ
496C:	Non-		Name :		 Warner	Name :						 Warra
Karlsborg	NOILE	None	None	None	None	None	None	None	None	None	None	None
496D:							İ					İ
Karlsborg	None	None	None	None	None	None	None	None	None	None	None	None

				1		1					
Map symbol	January	February	March	April	May	June	July	August	September	October	Novem
and											
soil name											

Table 26.--Flooding Frequency and Duration--Continued

Map symbol and	 January 	 February 	 March 	 April 	 May 	June	 July 	 August 	 September 	 October 	 November 	 December
soil name	<u> </u>			<u> </u>					<u> </u>			
4053												
497A: Meenon				 None		Nama	 Name	None	 None	Nam a	Nama	 None
meenon	None	None	None	None	None	None	None	None	None	None	None	None
521A:	l I	}	l I	 	l I	l I	 	l I	 			
Dody	None	None	None	 None	None	 None	 None	None	 None	None	 None	None
2007												
523A:	İ	i	İ					İ				
Nokasippi	None	None	None	None	None	None	None	None	None	None	None	None
	İ	Ì	İ	İ	ĺ	İ	ĺ	İ	İ	İ		İ
529B:												
Perida	None	None	None	None	None	None	None	None	None	None	None	None
531A:	!	ļ										
Stengel	None	None	None	None	None	None	None	None	None	None	None	None
542B:		l I					l I		 			
Haugen, very stony	None	None	None	 None	 None	 None	 None	None	 None	 None	 None	 None
scony	None	None	None	None	None	None	None	None	None	None	None	None
Haugen	None	None	None	 None	 None	 None	 None	None	 None	None	 None	 None
naagen						110110				110110	110110	
542C:	İ	i	İ	İ				İ	! 			
Haugen, very	İ	į	İ	İ	İ	İ		İ	İ	İ		İ
stony	None	None	None	None	None	None	None	None	None	None	None	None
	ĺ	ĺ	ĺ	ĺ				ĺ				
Haugen	None	None	None	None	None	None	None	None	None	None	None	None
544F:	!	ļ										
Menahga	None	None	None	None	None	None	None	None	None	None	None	None
Mr. 1. b												
Mahtomedi	None	None	None	None	None	None	None	None	None	None	None	None
553B:	l I	}	l I	 	l I	l I	 	l I	 			
Branstad	None	None	None	 None	None	 None	 None	None	 None	None	 None	None
Diambeda						110110				110110	110110	
553C:	İ	ì	İ					İ				
Branstad	None	None	None	None	None	None	None	None	None	None	None	None
	İ	Ì	İ	İ	İ	İ	İ	İ	İ	İ		İ
553D:												
Branstad	None	None	None	None	None	None	None	None	None	None	None	None
555A:		ļ	[[
Fordum	!	Rare	Occasional	-	-	Occasional		Rare			Occasional	
	Brief	Brief	Brief	Long	Long	Brief	Brief	Brief	Brief	Brief	Brief	Brief

Table 26.--Flooding Frequency and Duration--Continued

Map symbol and soil name	January 	February 	March 	April 	May 	June 	July 	August 	September 	October 	November 	Decembe:
557B:	 		[
Shawano	None	None	None	None	None	None	None	None	None	None	None	None
557C:	<u> </u>		ļ			!	!		ļ			!
Shawano	None 	None	None	None	None	None	None	None	None	None 	None	None
557D:		į	į	į		į	į	į	į	į		į
Shawano	None	None	None	None	None	None	None	None	None	None	None	None
586A:												İ
Chelmo	None	None	None	None	None	None	None	None	None	None	None	None
600A:	 											
Haplosaprists	None	None	None	None	None	None	None	None	None	None	None	None
Psammaquents	 None	None	None	None	None	None	None	None	None	None	None	None
615B:	 		 	1					 	 		
Cress	None	None	None	None	None	None	None	None	None	None	None	None
615C:	 		 						 	 		
Cress	None	None	None	None	None	None	None	None	None	None	None	None
615D:	 								 	 		
Cress	None	None	None	None	None	None	None	None	None	None	None	None
620C:	 		 						 	 		
Lundeen	None	None	None	None	None	None	None	None	None	None	None	None
Haustrup	 None	None	 None	None	None	None	None	None	 None	 None	None	None
Rock outcrop.	 		 						 			
621A:	 											
Bjorkland	None	None	None	None	None	None	None	None	None	None	None	None
CO 2 3 .												
623A: Capitola	 None	None	None	None	None	None	None	None	None	None	None	None
		į	İ	į		İ	İ		į	İ	į	į
624A: Ossmer	 None	None	None	None	None	None	None	None	None	None	None	None
631A:	None	None	None	None	None	None	None	None	None	None	None	None
Giese	None	None	None	None	None	None	None	None	None	None	None	None

Map symbol and soil name	 January 	 February 	 March 	 April 	 May 	 June 	 July 	 August 	 September 	 October 	 November 	 December
632A: Aftad	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
632B: Aftad	 None	 None	 None	 None 	 None	 None 	 None 	 None	 None 	 None 	 None	 None
632C: Aftad	 None 	 None	 None	 None 	 None	 None 	 None 	 None	 None 	 None 	 None 	 None
634C: Drylanding	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
Beartree	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None
Rock outcrop.	 	İ	İ	 	İ	 	 	 	 	 	 	
635C: Drylanding	 None	 None 	 Rare Brief	 Rare Brief	 Rare Brief	 None 	 None 	 None	 None 	 None 	 None 	 None
Beartree	 None 	 None 	 Rare Brief	 Rare Brief	 Rare Brief	 Rare Brief	 None 	 None 	 None 	 None 	 None 	 None
Rock outcrop.		 	 	 	 	 	 		 	 		
648B: Sconsin	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
669D: Fremstadt, stony	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
Pomroy	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None 	 None	 None
671B: Spoonerhill,												
stony Spoonerhill	İ	None None	None None	None None	None None	None None	None None	None None	None None	None None	None None	None None
706A: Winterfield	 Rare	 Rare	 Occasional	. –		1	 Occasional			1		
Totagatic	Brief Rare	Brief Rare	Brief Occasional	Long Frequent	Brief Frequent	Brief Occasional	Brief Rare	Brief Rare	Brief Occasional	Brief Occasional	Brief Occasional	Brief Rare
3	Brief	Brief	Brief	Long	Long	Brief	Brief	Brief	Brief	Brief	Brief	Brief

Table 26.--Flooding Frequency and Duration--Continued

Table 26.--Flooding Frequency and Duration--Continued

Map symbol and soil name	 January 	 February 	 March 	 April 	 May 	 June 	 July 	 August 	 September 	 October 	 November 	 December
	1	Ī		l	l	l						
715A: Mora	 None	 None	 None	 None	 None	 None	None	 None	 None	 None	 None	 None
717B: Milaca	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
1122404												
717C:												
Milaca	None	None	None	None	None	None	None	None	None	None	None	None
720F:	 		1	 	l I	l I	 	 	 	 	 	
Haustrup	None	None	None	None	None	None	None	None	None	None	None	None
Lundeen	 None	None	 None	 None	 None	 None	None	 None	 None	 None	 None	 None
Rock outcrop.	 			 	 	 	 		 	 	 	
70CD:												
726B: Sissabagama	 None	None	 None	 None	 None 	 None	 None	 None	 None	 None	 None	 None
742B:	 			 	 	 		! 	 	 	 	
Milaca	None	None	None	None	None	None	None	None	None	None	None	None
= 40 =												
742C: Milaca	None	None	None	 None	 None	 None	None	None	 None	None	 None	 None
MIIdod												
742D:	ĺ	İ	İ	İ	ĺ	ĺ		ĺ	ĺ	ĺ	ĺ	ĺ
Milaca	None	None	None	None	None	None	None	None	None	None	None	None
755A:				 	l I	l I	 	 	 	 	 	
Moppet	 Very rare	 Very rare	Rare	Occasional	Occasional	Rare	 Very rare	 Very rare	Rare	Rare	Rare	 Very rare
	Very	Very	Very	Brief	Brief	Very	Very	Very	Very	Very	Very	Very
	brief	brief	brief	İ	l I	brief	brief	brief	brief	brief	brief	brief
Fordum	Rare	Rare	Occasional	Frequent	 Frequent	 Occasional	Rare	Rare	Occasional	Occasional	 Occasional	Rare
101000	Brief	Brief	Brief	Long	Long	Brief	Brief	Brief	Brief	Brief	Brief	Brief
	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
771A:												
Lenroot	None	None	None	None	None	None	None	None	None	None	None	None
812B:												
Mora	None	None	None	None	None	None	None	None	None	None	None	None
0053												
825A: Meehan	 None	None	None	 None	 None	 None	None	None	 None	None	 None	 None

	1			T.	1		1	1	T.	1		1
Map symbol and	 January 	 February 	 March 	 April 	 May 	 June 	 July 	 August 	 September 	 October 	 November 	December
soil name	1										<u> </u>	
							[[
896A:												
Wurtsmith	None	None	None	None	None	None	None	None	None	None	None	None
0003												
980A: Soderbeck	None	None	None	 Rare	None	None	None	None	None	None	 None	None
BOUGET DECK	None	None	None	Brief	None	None	None	None	None	None	NOITE	None
	İ	İ		21101	İ		İ	İ	İ	İ	l I	
1070C:	İ	İ	İ	i	İ	i	İ	İ	i	İ	İ	İ
Fremstadt	None	None	None	None	None	None	None	None	None	None	None	None
Cress	None	None	None	None	None	None	None	None	None	None	None	None
1070D: Fremstadt		None	None	 None	None	None	 None	None	 None	None	 None	None
Fremstadt	None	None	None	None	None	None	None	None	None	None	None	None
Cress	 None	None	None	None	None	None	None	None	None	None	 None	None
	İ		i				i	i			İ	i
1080B:	į	İ	İ	İ	į	İ	Ì	Ì	İ	į	İ	İ
Spoonerhill	None	None	None	None	None	None	None	None	None	None	None	None
	!	!		ļ	!	!	ļ	ļ	ļ	!	!	
Spoonerhill,							1	1				
stony	None	None	None	None	None	None	None	None	None	None	None	None
Cress	None	None	None	None	None	 None	None	None	 None	None	None	None
CICDD												
2002.	İ	İ	İ	į	İ	İ	İ	İ	į	İ	İ	İ
Udorthents,							[[
earthen dams												
2015. Pits	 	I	1	 	 		l I	l I	 	 	 	1
PICS	 	1		 	 				 	 	l I	
2050.	i	İ	i	i	i	i	i	i	i	i	İ	i
Landfill	İ	İ	İ	į	İ	İ	į	į	į	İ	İ	İ
	ĺ	İ	İ	İ	ĺ	İ	ĺ	ĺ	İ	ĺ	ĺ	İ
3011A:												
Barronett	None	None	None	None	None	None	None	None	None	None	None	None
20025												
3082E: Braham	None	None	None	None	None	None	None	None	None	None	 None	None
DI allam											140116	
Shawano	None	None	None	None	None	None	None	None	None	None	None	None
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Table 26.--Flooding Frequency and Duration--Continued

Table 26.--Flooding Frequency and Duration--Continued

	1	1	1	I	I	1		1		I		1
Map symbol and	 January 	February	March	April	 May 	 June 	 July 	August	 September 	October	November	December
soil name	ĺ	İ	İ			ĺ	İ	İ	ĺ		İ	İ
	İ	İ	İ	Ì	İ	İ	İ	İ	İ	İ	İ	İ
3114A:	İ	İ	İ	İ	İ	į	İ	İ	İ	İ	į	İ
Saprists	None	None	None	None	None	None	None	None	None	None	None	None
_	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	į	İ
Aquents	None	None	None	None	None	None	None	None	None	None	None	None
	ĺ	İ	İ		İ	ĺ	İ	İ	İ	ĺ	İ	İ
Aquepts	None	None	None	None	None	None	None	None	None	None	None	None
3125A:												
Meehan	None	None	None	None	None	None	None	None	None	None	None	None
3126A:												
Wurtsmith	None	None	None	None	None	None	None	None	None	None	None	None
3312B:												
Glendenning,												
very stony	None	None	None	None	None	None	None	None	None	None	None	None
Glendenning	None	None	None	None	None	None	None	None	None	None	None	None
	!	ļ	ļ			!		!	!		!	
3336A:	!	ļ	ļ			!		!	!		!	
Fenander	None	None	None	None	None	None	None	None	None	None	None	None
3403A:		1	1									
Loxley	None	None	None	None	None	None	None	None	None	None	None	None
	137	137	137					137				
Beseman	None	None	None	None	None	None	None	None	None	None	None	None
D				Name -	Name -		 Warea		 Warra	Name a	 Warra	 Warner
Dawson	None	None	None	None	None	None	None	None	None	None	None	None
3429B:	I I	I	I		l I	 		1		l I		
Lara	None	None	None	None	None	None	None	None	None	None	None	None
шата	None	None	None	None	None	None	None	None	None	None	None	None
3429C:				I I		 	1				1	
Lara	None	None	None	None	None	None	None	None	None	None	None	None
3446A:	i i	i	i		i i	i i		İ		i i		
Newson	None	None	None	None	None	None	None	None	None	None	None	None
3448B:	i	i	i		İ	i	i	i	i	İ	i	i
Grettum	None	None	None	None	None	None	None	None	None	None	None	None
		İ	i									
3448C:	i	i	i	İ	İ	İ	i	i	i	İ	i	i
Grettum	None	None	None	None	None	None	None	None	None	None	None	None
	İ	i	i	İ	İ	İ	İ	İ	į	İ	į	İ

	1	1	1		1	1	1		I	1	1	1
Map symbol and	 January 	 February	March	 April 	 May 	 June 	 July 	August 	 September 	 October 	November	 December
soil name	<u> </u>						<u> </u>		<u> </u>			<u> </u>
3510B:												
Pomroy	None	None	None	None	None	None	None	None	None	None	None	None
Fremstadt	 None	 None	None	 None 	 None 	 None	 None	None	 None 	 None	 None	 None
Fremstadt, stony	None	None	None	None	 None 	None	None	None	None	None	None	 None
3510C:	i	i	İ	İ	İ	İ	İ	İ	i	i	İ	İ
Pomroy	None	None	None	None	None	None	None	None	None	None	None	None
Fremstadt	None	None	None	None	None	None	None	None	None	None	None	None
Fremstadt, stony	None	None	None	None	None	None	None	None	None	None	None	None
Fremstadt, stony	None	None	None	None	None	None	None	None	None	None	None	None
3511A:	i	ì	İ		İ			İ	İ	i		i
Bushville	None	None	None	None	None	None	None	None	None	None	None	None
	İ	İ	İ	İ	ĺ	Ì	İ	İ	İ	İ	Ì	İ
3516A:	!	ļ			!				!	!		
Slimlake	None	None	None	None	None	None	None	None	None	None	None	None
3625A:	1	1	I I	I I	I I	I I	1	I I	 	1	I I	1
Lino	None	None	None	None	None	None	None	None	None	None	None	None
		İ			ĺ							i
3626A:	İ	Ì	İ	İ	į	j	İ	İ	İ	İ	į	İ
Crex	None	None	None	None	None	None	None	None	None	None	None	None
3629B:	 None		Non e	Non-		Non-		Non e			Non-	l Warra
Perida	None	None	None	None	None	None	None	None	None	None	None	None
3636B:		i			 							
Plainbo	None	None	None	None	None	None	None	None	None	None	None	None
	İ	İ	İ		ĺ	Ì	İ	İ	İ	İ	İ	İ
3636C:	1	Ţ			[[1		
Plainbo	None	None	None	None	None	None	None	None	None	None	None	None
M-W.	I I	[1		I I	I I	I I	1	 	I I	I I	
Miscellaneous		1			İ							
water	i	i	İ		İ	İ	i	İ	i	i	İ	
	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
W.												
Water	ļ	ļ			ļ		[ļ	ļ		
	1				<u> </u>		1			<u> </u>		<u> </u>

Table 26.--Flooding Frequency and Duration--Continued

Table 27.--Ponding Frequency, Duration, and Depth

(Depth refers to the depth, in feet, of the water above the surface. See text for definitions of terms used in this table. Absence of an entry indicates that no estimate was made)

Map symbol and soil name	January 	February 	March 	April 	May 	June 	July 	August 	September	October 	November	December
	1	1	1	Ī	1	Ī	1	1	1	1	1	<u> </u>
3A:	İ	İ	İ	i	İ	i	i	İ	i		i	İ
Totagatic	None 	None 	None 	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	None 	None 	None 	None	None 	None 	None
Bowstring	 None 	None 	None 	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	None 	None 	None 	None 	None 	Occasional Brief Depth:	 None
Ausable	 None 	None	None 	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	None 	None	None	None 	 None 	Occasional Brief Depth:	 None
12A:				ì			ì	İ	ì			
Makwa	None 	None 	None 	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	None 	None 	None 	None	None 	Occasional Brief Depth:	None
22A:	İ	İ	İ	i	İ	i	i	İ	i		i	İ
Comstock	None	None	None	None	None	None	None	None	None	None	None	None
27A:		İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	ĺ
Scott Lake	None	None	None	None	None	None	None	None	None	None	None	None
28B: Haugen, very	 									 		
stony	 None 	 None	 None 	None	 None	 None 	None	 None	 None	 None 	 None	 None
Haugen	 None 	None	None	None	None	 None 	None	None	None	None	None	 None
Rosholt, very	İ	j	i	i	i	i	į	j	İ	İ	j	į
stony	None	None	None	None	None	None	None	None	None	None	None	None
Rosholt	 None	None	None	None	None	None	None	None	None	None	None	 None

Map symbol and	January 	February	March	April 	May	June	July	August	September	October	November	December
soil name	<u> </u>	<u> </u>										
28C: Haugen, very			l I							l I		
stony	 None	None	None	None	None	None	None	None	None	None	None	None
2 2												
Haugen	None	None	None	None	None	None	None	None	None	None	None	None
Rosholt, very	İ	İ	Ì	İ	İ	İ	İ	İ	İ	İ	į	İ
stony	None	None	None	None	None	None	None	None	None	None	None	None
Rosholt	Non-			Non-	Non a		Non a	Non a	Name -		Non-	N
ROSHOIT	None 	None	None	None	None	None	None	None	None	None	None	None
38A:			i		İ	i		İ		İ		
Rosholt	None	None	None	None	None	None	None	None	None	None	None	None
			ļ			ļ	!			ļ		
38B: Rosholt	None	None	None	None	None	None	None	None	None	 None	None	None
ROSHOIC	None	None	None	None	None	None	None	None	None	None	None	None
38C:			i		İ	i		İ		İ		
Rosholt	None	None	None	None	None	None	None	None	None	None	None	None
						[
38D: Rosholt	None	None	None	None	None	None	None	None	None	None	None	None
ROSHOIC	None	None	None	None	None	None	None	None	None	None	None	None
42D:			i	İ	İ	i	İ	İ		İ	İ	İ
Amery	None	None	None	None	None	None	None	None	None	None	None	None
425												
43B: Antigo	 None	None	None	None	None	None	None	None	None	None	None	None
imcigo												
43C:		İ	Ì	į	İ	j	İ	İ	į	į	į	İ
Antigo	None	None	None	None	None	None	None	None	None	None	None	None
63A:			}									
Crystal Lake	 None	None	None	None	None	None	None	None	None	None	None	None
01/1001 1000												
63B:		İ	Ì	İ	İ	İ	İ	İ	İ	İ	İ	İ
Crystal Lake	None	None	None	None	None	None	None	None	None	None	None	None
63C:			1									
Crystal Lake	 None	None	None	None	None	None	None	None	None	None	None	None
64A:		İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
Totagatic	None	None	None	Frequent	Frequent	None	None	None	None	None	None	None
			Į.	Long	Long	1				1		
			}	Depth:	Depth:	1		1				
				0.5	0.5					1		1

Table 27.--Ponding Frequency, Duration, and Depth--Continued

Table 27 Ponding Frequency, Duration, and DepthContinued	Table	27	Ponding	Frequency,	Duration,	and	DepthContinued
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	1	1	1	1			1	1	1		1	1
Map symbol and soil name	 January 	February	 March 	 April 	 May 	 June 	 July 	 August 	 September 	 October 	 November 	 December
SOII Hame	1	1	1	1	<u> </u>	<u> </u>	1	1	1	<u> </u>	1	<u> </u>
64A: Winterfield	 None	None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
69C: Keweenaw	 None	None	None	 None	 None	 None	 None	 None	 None	 None	 None	 None
Sayner	 None	 None	None	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None
Vilas	 None 	None	None	 None 	 None 	 None 	 None 	None	 None 	 None 	 None 	 None
69E:	i	İ	i	i	İ	İ	İ	i	i	İ	İ	
Keweenaw	None	None	None	None	 None 	 None 	None	None	None	 None 	None	None
Sayner	None	None	None	None	 None 	 None 	None	None	None	 None 	None	None
Vilas	None	None	None	None	 None 	 None 	 None	None	None	 None 	 None 	None
82B:	i	İ	İ	İ	İ	İ	İ	İ	i	İ	İ	
Cutaway	None	None	None	None	None	None	None	None	None	None	None	None
Branstad	 None	 None	None	 None	 None 	 None 	 None 	 None	 None	 None 	 None 	 None
82C:				 	 	 	 	İ		 	 	
Cutaway	None	None	None	None	None	None	None	None	None	None	None	None
Branstad	 None	None	None	 None	 None	 None	 None	 None	 None	 None	 None	 None
83A:				 	l I	l I	 		 	l I	 	
Smestad	None	None	None	None	 None 	 None 	 None	None	None	 None 	 None	None
85B:	i	i	i	i	İ	i I	i	i	i	İ	İ	!
Taylor	None	None	None	None	 None 	 None 	 None	None	None	 None 	 None 	None
85C:	i	i	i	i	İ	İ	i	i	i	İ	i	!
Taylor	None	None	None	None	 None 	 None 	 None	None	None	 None 	 None 	None
86A:	i	i	i	i	İ	İ	İ	i	i	İ	i	İ
Indus	None	None	None	Occasional Brief	Occasional Brief	None	None	None	None	None	Occasional Brief	None
Alango	 None 	 None	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None

Map symbol and soil name	January	February 	March 	April 	May 	June 	July 	August 	September 	October 	November	December
			İ				1	İ	İ	i i		İ
39A: Wildwood	None	 None 	 Occasional Brief Depth: 0.5	 Frequent Long Depth: 0.5	 Frequent Long Depth: 0.5	 Occasional Brief Depth: 0.5	 None 	 None 	 None 	 None 	 Occasional Brief Depth: 0.5	 None
96B:				 			 	 				
Karlsborg	None	None	None	None	None	None	None	None	None	None	None	None
96C:				 			 	 	 			
Karlsborg	None	None	None	None	None	None	None	None	None	None	None	None
96D:				 			 					
Karlsborg	None	None	None	None	None	None	None	None	None	None	None	None
LOOB:				 			 					
Menahga	None	None	None	None	None	None	None	None	None	None	None	None
LOOC:				 			 					
Menahga	None	None	None	None	None	None	None	None	None	None	None	None
LOOD:				 			 					
Menahga	None	None	None	None	None	None	None	None	None	None	None	None
L20B:				 			 					
Kost	None	None	None	None	None	None	None	None	None	None	None	None
L27D:				 			 	 	 			
Amery	None	None	None	None	None	None	None	None	None	None	None	None
Rosholt	None	None	None	 None	None	None	 None	None	None	None	None	None
			į	į	į		į	į	į	į		į
L27E: Amery	None	None	None	 None	None	None	 None	None	None	None	None	None
-		İ	į.	<u></u>	j		<u> </u>	į	į.	İ		į.
Rosholt	None	None	None	None	None	None	None	None	None	None	None	None
L51A:				į			į	į	į	į		į
Bluffton	None	None 	None 	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	None	None 	None 	None 	None 	None	None
L52A:				! 								
Alstad	None	None	None	None	None	None	None	None	None	None	None	None

Table 27.--Ponding Frequency, Duration, and Depth--Continued

Table 27.--Ponding Frequency, Duration, and Depth--Continued

Map symbol and soil name	January	 February 	 March 	 April 	 May 	 June 	 July 	 August 	 September 	 October 	 November 	 December
		1	ļ					ļ				
154E: Cushing	None	None	None	None	None	 None	None	None	None	None	None	None
156B:		ļ			ļ			!				
Magnor, very	None	None	None	None	None	Mone	None	None	None	None	None	None
stony	None	None	None	None	None	None	None	None	None	None	None	None
Magnor	None	None	None	None	None	 None 	None	None	None	None	None	None
157B:		i	İ	İ	i	İ	į	İ	İ	İ	i	İ
Freeon, very												
stony	None	None	None	None	None	None	None	None	None	None	None	None
Freeon	None	None	 None	None	 None	 None	 None	None	 None	None	 None	None
157C:					 	 	 		 			
Freeon, very		j	İ	İ	İ	İ	j	İ	į	İ	İ	İ
stony	None	None	None	None	None	None	None	None	None	None	None	None
Freeon	None	None	None	None	 None	 None	 None	None	 None	 None	 None	None
160A:						 	 		 			
Oesterle	None	None	None	None	None	None	None	None	None	None	None	None
į		Ì	į	İ	İ	İ	İ	İ	į	İ	į	İ
165B:												
Elderon	None	None	None	None	None	None	None	None	None	None	None	None
185B:		ì	i		i	İ	ì		i		i	
Tradelake	None	None	None	None	None	None	None	None	None	None	None	None
m1												
Taylor	None	None	None	None	None	None	None	None	None	None	None	None
185C:		i			i	<u> </u>	i		İ		i	
Tradelake	None	None	None	None	None	None	None	None	None	None	None	None
Taylor	None	None	None	None	None	None	None	None	None	None	None	None
185D:		i			i	İ	i		i		i	
Tradelake	None	None	None	None	None	None	None	None	None	None	None	None
m	NT											
Taylor	none	None	None	None	None	None	None	None	None	None	None	None
185E:												
Tradelake	None	None	None	None	None	None	None	None	None	None	None	None
!												
Taylor	None	None	None	None	None	None	None	None	None	None	None	None

Map symbol and soil name	January 	February 	March 	April 	May 	June 	July 	August 	September 	October 	November 	December
189A:	 		 			 	 	 	 	 	 	
Siren	None	None	None	None	None	None	None	None	None	None	None	None
193A:	 											
Minocqua	None 	None 	None 	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	None 	None 	None 	None 	None 	None 	None
337A:	 											
Plover	None	None	None	None	None	None	None	None	None	None	None	None
368B:	 											
Mahtomedi	None	None	None	None	None	None	None	None	None	None	None	None
Cress	 None	None	None	None	None	None	None	None	None	None	None	None
368C:	 		 			 	 	 		 		
Mahtomedi	None	None	None	None	None	None	None	None	None	None	None	None
Cress	 None	None	 None	None	None	 None	 None	 None	 None	 None	None	None
368D:	 		 			 	 	 		 		
Mahtomedi	None	None	None	None	None	None	None	None	None	None	None	None
Cress	 None	None	None	None	None	None	 None	None	 None	 None	None	None
368E:			 				 					
Mahtomedi	None	None	None	None	None	None	None	None	None	None	None	None
Cress	 None	None	 None	None	None	None	 None	None	 None	 None	None	None
380B:			 				 					
Cress	None	None	None	None	None	None	None	None	None	None	None	None
Rosholt	 None	None	None	None	None	None	 None	None	 None	 None	None	None
380C:	 											
Cress	None	None	None	None	None	None	None	None	None	None	None	None
Rosholt	 None	None	 None	None	None	 None	 None	 None	 None	 None	None	 None
380D:	 		[[[[]	 	 	 		
Cress	None	None	None	None	None	None	None	None	None	None	None	None
Rosholt	 None	None	 None	None	None	None	None	None	 None	None	None	None

Table 27.--Ponding Frequency, Duration, and Depth--Continued

Table 27	Ponding	Frequency,	Duration,	and	DepthContinued
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		1										1
Map symbol and soil name	 January 	 February 	 March 	 April 	 May 	 June 	 July 	 August 	 September 	 October 	 November 	December
		Ī	1						1			
383B: Mahtomedi	 None 	 None	 None	 None	 None 	 None	 None	 None	 None	 None	 None 	 None
383C: Mahtomedi	 None	 None	 None	 None	 None	 None	None	 None	 None	 None	 None	 None
383D: Mahtomedi	 None 	 None	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None
392C:		İ	İ	İ		İ			İ	İ		İ
Rockmarsh	None	None	None	None	None	None	None	None	None	None	None	None
Dairyland	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None
Makwa	None	None	None	None	None	None	None	None	None	None	None	None
396B:	 				 		 	 			 	
Friendship	None	None	None	None	None	None	None	None	None	None	None	None
Wurtsmith	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None	 None
Grayling	None	None	None	None	None	None	None	None	None	None	None	None
397A:	 				 		 	 			 	
Perchlake	 None 	None	None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None 	None
399B:	İ	İ	į	İ	İ	İ	İ	İ	j	İ	İ	į
Grayling	None	None	None	None	None	None	None	None	None	None	None	None
399C:	İ		İ								İ	İ
Grayling	None	None	None	None	None	None	None	None	None	None	None	None
399D:	 				 	 	 		 	 	 	
Grayling	None	None	None	None	None	None	None	None	None	None	None	None
406A:	 			 	 	 	 	 	 	 	 	
Loxley	 None 	None 	None 	Occasional Long Depth:	None 	None - -	None 	None 	None 	None 	 None 	None
407A:	 			 	 	 	 	 	 	 	 	
Seelyeville	 None 	 None 	Occasional Brief Depth:	Frequent Long Depth: 0.5	 Frequent Long Depth: 0.5	Occasional Brief Depth:	 None 	 None 	 None 	 None 	Occasional Brief Depth:	None

Map symbol and soil name	January 	February 	March 	April 	May 	June 	July 	August 	September 	October 	November	Decembe
	[
407A: Markey	 None 	 None 	Occasional Brief Depth: 0.5	 Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	 Occasional Brief Depth: 0.5	 None 	 None 	 None 	 None 	Occasional Brief Depth:	 None
410A:	 			 								
Seelyeville	None 	None	Occasional Brief Depth: 0.5	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	Occasional Brief Depth: 0.5	None 	None 	None	None 	Occasional Brief Depth: 0.5	None
Cathro	 None 	None 	Occasional Brief Depth: 0.5	 Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	Occasional Brief Depth: 0.5	 None 	None 	None 	 None 	Occasional Brief Depth:	 None
119A:		i				i						
Seelyeville	None 	None 	Occasional Brief Depth: 0.5	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	Occasional Brief Depth: 0.5	None 	None 	None 	None 	Occasional Brief Depth: 0.5	None
Cathro	 None 	None	Occasional Brief Depth: 0.5	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	Occasional Brief Depth:	 None 	None	None	None 	Occasional Brief Depth:	 None
Markey	 None 	None 	Occasional Brief Depth: 0.5	 Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	Occasional Brief Depth:	 None 	None	None 	 None 	Occasional Brief Depth:	 None
421A:	 			 			 					
Dora	None 	None	Occasional Brief Depth: 0.5	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	Occasional Brief Depth:	None 	None 	None	None 	Occasional Brief Depth:	None
Markey	 None 	None 	Occasional Brief Depth:	 Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	Occasional Brief Depth: 0.5	 None 	 None 	None 	 None 	Occasional Brief Depth:	 None

Table 27.--Ponding Frequency, Duration, and Depth--Continued

Table 27.--Ponding Frequency, Duration, and Depth--Continued

Map symbol and soil name	 January 	February	 March 	 April 	 May 	 June 	 July 	August 	 September 	October 	November	 December
421A:	<u> </u>				 	<u> </u> 	 					
Seelyeville	None 	None	Occasional Brief Depth: 0.5	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	Occasional Brief Depth: 0.5	None 	None	None	None 	Occasional Brief Depth: 0.5	None
422A:		l I		 			 					
Seelyeville	 None 	None	Occasional Brief Depth: 0.5	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	Occasional Brief Depth:	 None 	None	None	None 	Occasional Brief Depth:	 None
Cathro	 None 	None 	Occasional Brief Depth: 0.5	 Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	Occasional Brief Depth:	 None 	None	None	 None 	Occasional Brief Depth:	 None
Rondeau	 None 	None	Occasional Brief Depth:	 Frequent Long Depth: 0.5	 Frequent Long Depth: 0.5	 Occasional Brief Depth: 0.5	 None 	None	None	 None 	Occasional Brief Depth:	 None
426B:				 			 					
Emmert	None	None	None	None	None	None	None	None	None	None	None	None
Mahtomedi	 None 	None	None	 None 	 None	 None	 None 	None	 None	None	 None	 None
Menahga	None	None	None	 None	None	None	None	None	None	None	None	None
426C:	 						 					
Emmert	None	None	None	None	None	None	None	None	None	None	None	None
Mahtomedi	 None	None	None	 None	None	 None	 None	None	 None	None	 None	 None
Menahga	 None	None	None	 None	None	 None	 None	None	None	None	None	 None
426D:	 			 			 					
Emmert	None	None	None	None	None	None	None	None	None	None	None	None
Mahtomedi	 None	None	None	 None	None	None	 None	None	None	None	None	 None
Menahga	 None	None	None	 None	None	 None	 None	None	 None	None	 None	 None
430A: Freya	 None	 None	 None	 None	 None	 None	 None	 None	None	 None	None	 None

Map symbol	January	February	March	April	May	June	July	August	September	October	November	Decembe
and soil name	 	<u> </u>	<u> </u>	<u> </u> 	<u> </u>	 	 	<u> </u>	<u> </u>	 	<u> </u>	<u> </u>
439B:	 			 			 			 		
Graycalm	None	None	None	None	None	None	None	None	None	None	None	None
Menahga	 None	None	None	 None	None	 None	 None	None	None	None	None	None
439C:	 			 			 			 		
Graycalm	 None	None	None	None	None	None	None	None	None	None	None	None
Menahga	 None	None	None	 None	None	None	 None	None	None	None	None	None
439D:	 						 					
Graycalm	None	None	None	None	None	None	None	None	None	None	None	None
Menahga	 None	None	None	 None	None	None	 None	None	None	 None	None	None
442C:	 			 								
Haugen	None	None	None	None	None	None	None	None	None	None	None	None
Greenwood	 None 	None	 None 	 Occasional Long Depth: 0.5	 None 	 None 	 None 	 None 	 None 	 None 	 None 	 None
443D:	 -	İ	į i	 -		İ	İ	į	İ	į	İ	į
Amery	None	None	None	None	None	None	None	None	None	None	None	None
Greenwood	 None 	None	 None 	 Occasional Long Depth: 0.5	None	 None 	 None 	 None 	 None 	 None 	 None 	 None
459A:	 			 			 			 		
Loxley	None 	None	None 	Occasional Long Depth: 0.5	None	None	None 	None	None 	None 	None	None
Daisybay	 None 	None	Occasional Brief Depth: 0.5	 Frequent Long Depth: 0.5	Frequent Long Depth:	Occasional Brief Depth:	 None 	None 	 None 	 None 	Occasional Brief Depth:	 None
Dawson	 None 	None	 None 	 Occasional Long Depth: 0.5	None	None 	 None 	 None 	 None 	 None 	 None 	 None

Table 27.--Ponding Frequency, Duration, and Depth--Continued

Table 27.--Ponding Frequency, Duration, and Depth--Continued

Map symbol and soil name	 January 	February	March 	April 	 May 	June 	July	August 	 September 	October 	November	December
				-	[]					
461A: Bowstring	 None 	None	 None 	Frequent Long Depth: 0.5	 Frequent Long Depth: 0.5	 None 	None	 None 	 None 	 None 	Occasional Brief Depth: 0.5	 None
465A:	 											
Newson	 None 	None	 None 	Frequent Long Depth: 0.5	 Frequent Long Depth: 0.5	 None 	None 	None	None	 None 	None	 None
Meehan	 None	None	None	 None	 None	None	None	None	 None	None	 None	 None
469E:	 											
Bigisland	None	None	None	None	None	None	None	None	None	None	None	None
Milaca	 None	None	None	None	None	None	None	None	None	None	None	 None
471B:	 							1				
Dairyland	None	None	None	None	None	None	None	None	None	None	None	None
Emmert	 None	None	None	None	None	None	None	None	None	None	None	 None
471C:	 											
Dairyland	None	None	None	None	None	None	None	None	None	None	None	None
Emmert	 None	None	None	None	 None	None	None	None	None	None	 None	 None
472A:	 											
Rockmarsh	None	None	None	None	None	None	None	None	None	None	None	None
Clemens	 None	 None	None	None	 None	None	None	None	 None	 None	 None	 None
473A:	 											
Dairyland	None	None	None	None	None	None	None	None	None	None	None	None
Skog	 None	None	None	None	 None	None	None	None	None	None	None	 None
484A:	 											
Greenwood	 None 	None	None 	Occasional Long Depth:	 None 	None 	None	None	None	None 	None	None

Map symbol and soil name	January 	February	March 	April 	May	June 	July 	August 	 September 	October 	November 	December
484A:	 			 			 					
Beseman	None 	None	None 	Occasional Long Depth:	None	None 	None 	None 	None 	None 	None 	None
485C:	 			 			 					
Lupton	 None	None	None	None	None	None	None	None	None	None	None	None
Tawas	 None 	None	Occasional Brief Depth:	 Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	Occasional Brief Depth:	 None 	None 	None 	 None 	Occasional Brief Depth:	 None
495B:	 			 			 		1			
Karlsborg	 None	None	None	 None	None	None	 None	None	None	None	None	None
Grettum	 None	None	None	 None	None	None	 None	None	None	None	None	None
Perida	 None	None	None	 None	None	None	 None	None	None	None	None	None
495C:	 -			 			 					
Karlsborg	 None	None	None	 None	None	None	 None	None	None	None	None	None
Grettum	 None	None	None	 None	None	None	 None	None	None	None	None	None
Perida	 None	None	None	 None	None	None	 None	None	None	None	None	None
495D:	 -			 			 					
Karlsborg	 None	None	None	None	None	None	None	None	None	None	None	None
Grettum	 None	None	None	 None	None	None	 None	None	None	 None	None	 None
Perida	None	None	None	None	None	None	None	None	None	 None	None	None
496B: Karlsborg	 None	 None	 None	 None	None	 None	 None	 None	 None	 None	 None	 None
496C:	 		 	 	 		 			 		[]
Karlsborg	None	None	None	None	None	None	None	None	None	None	None	None
496D: Karlsborg	 None	None	None	 None	None	None	 None	None	None	 None	 None	 None
497A: Meenon	 None	 None	 None	 None	None	 None	 None	 None	 None	 None	 None	 None

Table 27.--Ponding Frequency, Duration, and Depth--Continued

Table 27.--Ponding Frequency, Duration, and Depth--Continued

Map symbol and soil name	January	February	March	April	May	June 	July	August	September	October	November	December
SOII Hame		1	1	I	I I	<u> </u> 	I	1	l	1	I	1
521A:		İ				! 		ì		İ	i	
Dody 	None	None 	None	Frequent Long Depth: 0.5	Occasional Brief Depth: 0.5	None 	None	None	None	Occasional Brief Depth: 0.5	Occasional Brief Depth:	None
523A:			İ	İ		 		I I				
Nokasippi 	None	None	None	Frequent Long Depth: 0.5	Frequent Long Depth:	 None 	None	None	None	None	Occasional Brief Depth:	None
529B:		1	1	İ		 		I I				
Perida	None	None	None	None	None	 None 	None	None	None	None	None	None
531A:		j	į	İ		İ	İ	İ	İ	İ	i	
Stengel	None	None	None	None	None	None	None	None	None	None	None	None
542B:			Ì								İ	
Haugen, very		1						ļ			1	
stony	None	None	None	None	None	None	None	None	None	None	None	None
Haugen	None	None	None	None	None	 None 	None	None	None	None	None	None
542C:		i	İ							İ		
Haugen, very							1				1	
stony	None	None	None	None	None	None	None	None	None	None	None	None
Haugen	None	None	None	None	None	 None	None	None	None	None	 None	None
544F:		i						i		i		
Menahga	None	None	None	None	None	None	None	None	None	None	None	None
Mahtomedi	None	None	None	None	None	 None	None	None	None	None	 None	None
553B:		1		l I		 		l I				
Branstad	None	None	None	None	None	None	None	None	None	None	None	None
553C:						 						
Branstad	None	None	None	None	None	 None	None	None	None	None	None	None
553D:			1			 		1			 	
Branstad	None	None	None	None	None	None	None	None	None	None	None	None

Map symbol and soil name	 January 	 February 	 March 	 April 	 May 	 June 	 July 	 August 	 September 	 October 	 November 	 December
	I	I	I	I	I	I	I	I	I		I	
555A:												
Fordum	None 	None 	None 	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	None 	None 	None 	None 	None 	None 	None
557B:				 				 	 		 	
Shawano	None	None	None	None	None	None	None	None	None	None	None	None
	ĺ	İ	İ	İ	ĺ	ĺ	İ	İ	İ	İ	ĺ	ĺ
557C:												
Shawano	None	None	None	None	None	None	None	None	None	None	None	None
557D:		i	i	i			i	i			i	
Shawano	None	None	None	None	None	None	None	None	None	None	None	None
	ļ			ļ	ļ	ļ			ļ		ļ	
586A: Chelmo	None	None	Occasional	Frequent	 Frequent	 Occasional	None	None	None	None	 Occasional	None
CHEIMO	None	None	Brief	Long	Long	Brief	None	None	None		Brief	None
	İ	İ	Depth:	Depth:	Depth:	Depth:	İ	İ	į	İ	Depth:	İ
	1	[0.5	0.5	0.5	0.5	[[[0.5]
600A:					 				 			1
Haplosaprists	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent
	Very long	: -				. –						
	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Psammaquents	Frequent	Frequent	Frequent	Frequent	 Frequent	 Frequent	Frequent	Frequent	 Frequent	 Frequent	Frequent	 Frequent
1 bananaquerreb	Very long	: -	: -		-	: -	Very long	: -	: -		-	
	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
615B:				 	l I				 	l I		
Cress	None	None	None	None	None	None	None	None	None	None	None	None
	İ			İ		İ			İ			
615C:	ļ	!	!	ļ	ļ.	ļ	!	!	ļ	!	ļ	
Cress	None	None	None	None	None	None	None	None	None	None	None	None
615D:	[[[[[
Cress	None	None	None	None	None	None	None	None	None	None	None	None
	[[[[[[[[
620C:					 None							
Lundeen	None	None	None	None	None	None	None	None	None	None	None	None
Haustrup	None	None	None	None	None	None	None	None	None	None	None	None
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Table 27.--Ponding Frequency, Duration, and Depth--Continued

Table 27 Ponding Frequency, Duration, and DepthContinue	Table	27	Ponding	Frequency,	Duration,	and	Depth Continue
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Map symbol and soil name	January	February 	March 	April 	May 	June 	July 	August	September 	October 	November 	Decembe
520C:	 		<u> </u>	 	 		 				[[
Rock outcrop.				 			 					
521A:			i	 		i		ì			İ	
Bjorkland	None	None 	Occasional Brief Depth: 0.5	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	Occasional Brief Depth: 0.5	None 	None 	None 	None 	Occasional Brief Depth: 0.5	None
623A:												
Capitola	None 	None 	None 	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	None 	None 	None 	None 	None 	None 	None
624A:			İ	 			 	i			 	
Ossmer	None	None	None	None	None	None	 None 	None	None	None	None	None
631A:		j	İ	İ	İ	į	İ	Ì	İ	į	į	į
Giese	None 	None 	Occasional Brief Depth: 0.5	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	Occasional Brief Depth: 0.5	None 	None 	None 	None 	Occasional Brief Depth: 0.5	None
632A:			 	 		I I	 				 	
Aftad	None	None	None	None	None	None	 None 	None	None	None	 None 	None
632B:		İ	İ	İ		İ	İ	i	İ	İ	İ	İ
Aftad	None	None	None	None	None	None	None	None	None	None	None	None
632C:		ļ	Į.			Į.		Ţ	[[[[
Aftad	None	None	None	None	None 	None	None 	None	None	None 	None	None
634C:		!	ļ	!	ļ.	ļ	ļ.	Ţ	!	!	ļ.	
Drylanding	None	None	None	None	None	None	None	None	None	None	None	None
Beartree	None	None 	Rare Brief Depth: 1.0	Occasional Brief Depth:	Rare Brief Depth: 1.0	None 	 None 	None	None 	Occasional Brief Depth:	None 	None
Rock outcrop.				 			 					
635C:				 								
Drylanding	None	None	None	None	None	None	None	None	None	None	None	None

Map symbol and soil name	January 	February 	March 	April	May 	June 	July 	August 	September	October 	November 	Decembe
635C:	 				 		ļ				 	
Beartree	None	None	Rare Brief Depth:	Occasional Brief Depth:	Rare Brief Depth: 1.0	None 	None	None	None	Occasional Brief Depth:	 None 	 None
Rock outcrop.					 -						 -	
648B:					 						 	
Sconsin	None	None	None	None	None	None	None	None	None	None	 None 	None
669D:												
Fremstadt, stony	None 	None	None	None	None	None	None	None	None	None	None	None
Pomroy	None	None	None	None	 None	None	None	None	None	None	 None 	None
671B:					! 							
Spoonerhill,		!					ļ	ļ		!		
stony	None	None	None	None	None	None	None	None	None	None	None	None
Spoonerhill	None	 None 	None	None	 None 	None	None	None	None	None	 None 	None
706A:		!					İ	Ţ		!	ļ	!
Winterfield	None	None	None	None	None	None	None	None	None	None	None	None
Totagatic	None	None 	None 	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	None	None 	None	None	 None 	 None 	None
715A:					 							
Mora	None	None	None	None	None	None	None	None	None	None	None	None
717B:												
Milaca	None 	None	None	None	None	None	None	None	None	None	None	None
717C:						İ	i	į		İ		İ
Milaca	None	None	None	None	None	None	None	None	None	None	None	None
720F:					 							
Haustrup	None	None	None	None	None	None	None	None	None	None	None	None
Lundeen	None	None	 None	None	 None	None	None	None	None	 None	 None	None
Rock outcrop.	l I		1	I I	l I	I I	1	I	I	I I	l I	1

Table 27.--Ponding Frequency, Duration, and Depth--Continued

Table 27	Ponding	Frequency,	Duration,	and	DepthContinued
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Map symbol and soil name	January	February	March	April		_		1			1	
l l				APILI	May	June	July	August	September	October	November	December
		1				<u> </u>	<u> </u>	1	<u> </u>	<u> </u>	<u> </u>	1
726B:	į	İ	j i			İ	İ	j	j	j	İ	İ
Sissabagama N	None	None	None	None	None	None	None	None	None	None	None	None
742B:			 				 	 	 	 	 	
MilacaN	None	 None	 None	None	None	 None	 None	None	 None	 None	 None	None
į	į	İ	j i			İ	İ	į	j	j	İ	İ
742C:	_											
Milaca N	None	None	None	None	None	None	None	None	None	None	None	None
742D:		 					! 	i I	! 	! 	! 	i I
MilacaN	None	None	None	None	None	None	None	None	None	None	None	None
755A: Moppet N	Jone	None	 None	None	None	 None	 None	None	 None	 None	 None	None
Moppee N				110110	110110							
Fordum N	None	None	None	Frequent	Frequent	None	None	None	None	None	None	None
				Long	Long							
		 	 	Depth: 0.5	Depth: 0.5		l I	l I	 	l I	l I	
		 		0.5	0.5		! 	i I	! 	! 	! 	i I
771A:	į	İ	j i			İ	İ	j	j	j	İ	İ
Lenroot N	None	None	None	None	None	None	None	None	None	None	None	None
812B:		 	 				 	l I	 	l I	 	
Mora N	None	None	None	None	None	None	None	None	None	None	None	None
į	İ	ĺ	į į				İ	ĺ	İ	ĺ	ĺ	ĺ
825A:	_											
Meehan N	None	None	None	None	None	None	None	None	None	None	None	None
896A:							 	İ		İ	 	İ
Wurtsmith N	None	None	None	None	None	None	None	None	None	None	None	None
0003												
980A: Soderbeck N	Jone	 None	 None	None	None	 None	 None	 None	 None	 None	 None	 None
				1.0110								
1070C:	į	İ	j i			İ	İ	İ	İ	İ	İ	İ
Fremstadt N	None	None	None	None	None	None	None	None	None	None	None	None
 Cress N	Jone	None	 None	None	None	None	None	None	 None	 None	 None	None
51655IN												
1070D:	į	İ	İ				İ	İ	İ	İ	İ	İ
Fremstadt N	None	None	None	None	None	None	None	None	None	None	None	None
 Cress N	Jone	None	 None	None	None	None	None	None	 None	 None	 None	None
CTESS N	4011E	 wome	140116	14011E	140116	 wome	 wome	140116	 140116	 140116	140116	140116

Map symbol and soil name	 January 	 February 	 March 	 April 	May	 June 	 July 	 August 	 September 	 October 	 November 	 December
	I					I					I	[
1080B:												[
Spoonerhill	None	None	None	None	None	None	None	None	None	None	None	None
		<u> </u>										ļ
Spoonerhill,												
stony	None	None	None	None	None	None	None	None	None	None	None	None
Cress	 None 	 None 	 None 	 None 	None	 None 	 None 	 None 	 None 	 None 	 None 	 None
2002.] 		 	 	 	 	 	 	İ
Udorthents,	İ	İ	İ			İ		İ		İ	İ	i
earthen dams	İ	j	j			İ	İ	j	İ	İ	İ	Ì
												[
2015.	!	!	!			!		!		!	!	ļ
Pits												
2050.	 	l I	l I]]		l I	l I	l I	 	 	l I	l I
Landfill	 	I I	I I	 		l I	 	I I	 	 	l I	i I
	İ	İ	İ			İ		İ		İ	İ	i
3011A:	į	į	į	İ		İ	İ	į	İ	į	İ	Ì
Barronett	None	None	None	Frequent	Frequent	None	None	None	None	None	None	None
	!	!	!	Long	Long	!		!		!	!	ļ
				Depth:	Depth:							
				0.5	0.5				 			
3082E:	 	l I	l I	 		l I	 	l I	 	 	l I	}
Braham	None	None	None	 None	None	 None	 None	None	 None	None	 None	None
Shawano	None	None	None	None	None	None	None	None	None	None	None	None
												[
3114A:												ļ
Saprists		Frequent			Frequent	Frequent	Frequent	Frequent	Frequent		Frequent	Frequent
	Very long	Very long Depth:		Very long Depth:	Very long Depth:				Very long Depth:		Very long	
	Depth:	Depth:	Depth:	Depth: 1.6	1.6	Depth:	Depth:	Depth:	Depth: 1.6	Depth:	Depth:	Depth:
	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Aquents	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent
-	Very long	Very long	Very long	Very long	Very long	Very long	Very long	Very long	Very long	Very long	Very long	Very long
	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:
	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Aquepts		Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent	Frequent
	Very long				Very long							
	Depth:	Depth:	Depth:	Depth:	Depth: 1.6	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:	Depth:

Table 27.--Ponding Frequency, Duration, and Depth--Continued

Table 27	Ponding	Frequency,	Duration,	and	DepthContinued
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Map symbol and soil name	January	February	March	April	May	June	July	August	September	October	November	December
soil name	<u> </u>	1	1	1	<u> </u>	<u> </u>	1	1	<u> </u>	1	<u> </u>	<u> </u>
3125A:	i	j	İ	i				İ				İ
Meehan	None	None	None	None	None	None	None	None	None	None	None	None
3126A:	 											
Wurtsmith	None	None	None	None	None	None	None	None	None	None	None	None
3312B:					 							
Glendenning,	į	j	İ	į	į	İ	İ	i	İ	İ	İ	İ
very stony	None	None	None	None	None	None	None	None	None	None	None	None
Glendenning	 None	None	None	 None	 None	None	None	 None	None	None	 None	None
3336A:				İ	 							
Fenander	None 	None 	None 	Frequent Long Depth: 0.5	Frequent Long Depth: 0.5	None 	None 	None	None	None 	None	None
3403A:					 							
Loxley	None 	None 	None 	Occasional Long Depth: 0.5	None 	None	None	None	None	None 	None	None
Beseman	 None 	 None 	 None 	Occasional Long Depth: 0.5	 None 	None	 None 	None	 None 	 None 	None	 None
Dawson	 None 	 None 	 None 	Occasional Long Depth: 0.5	 None 	None	None	None	 None 	 None 	 None 	 None
3429B:	 				 							
Lara	None	None	None	None	None	None	None	None	None	None	None	None
3429C:	 				 							
Lara	None	None	None	None	None	None	None	None	None	None	None	None
3446A:	 				 							
Newson	None 	None	None 	Frequent Long Depth: 0.5	 Frequent Long Depth: 0.5	None	None	None	None	None 	None	 None

	I	1	1	1	1	1		1		1	1	
Map symbol and soil name	 January 	 February 	 March 	April 	 May 	 June 	 July 	 August 	 September 	 October 	 November 	December
		1										
3448B: Grettum	None	None	None	None	None	None	None	None	None	None	None	None
GIECCUM	None 	None	None	None	None	 	None	None	None	None		None
3448C:	İ	j	İ	İ	İ	j	į	į	İ	İ	į	İ
Grettum	None	None	None	None	None	None	None	None	None	None	None	None
3510B:	 		l I			l I						
Pomroy	 None	None	None	None	None	None	None	None	None	None	None	None
•	İ	j	İ	j	i	İ	į	į	İ	i	İ	İ
Fremstadt	None	None	None	None	None	None	None	None	None	None	None	None
Fremstadt, stony	None	None	None	None	None	None	None	None	None	None	None	None
riemscade, scony	None											
3510C:	İ	j	İ	j	İ	İ	İ	İ	İ	İ	İ	İ
Pomroy	None	None	None	None	None	None	None	None	None	None	None	None
Fremstadt	None	None	None	None	None	None	None	None	None	None	None	None
rremscade	None											
Fremstadt, stony	None	None	None	None	None	None	None	None	None	None	None	None
25113.	l I											
3511A: Bushville	 None	None	None	None	None	None	None	None	None	None	None	None
245												
3516A:		İ	İ	İ	ĺ	İ	İ	İ	İ	ĺ	İ	İ
Slimlake	None	None	None	None	None	None	None	None	None	None	None	None
3625A:	 		I I		1	I I			l I	1	I I	
Lino	None	None	None	None	None	None	None	None	None	None	None	None
	ĺ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
3626A:												
Crex	None 	None	None	None	None	None	None	None	None	None	None	None
3629B:	 		İ		i					i		
Perida	None	None	None	None	None	None	None	None	None	None	None	None
26268												
3636B: Plainbo	 None	None	None	None	None	None	None	None	None	None	None	None
11411120												
3636C:	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ	İ
Plainbo	None	None	None	None	None	None	None	None	None	None	None	None
M-W.	 				 					 		
Miscellaneous	İ	İ	İ	i	i	İ	i	i	İ	i	İ	
water					I					I		

Table 27.--Ponding Frequency, Duration, and Depth--Continued

Table 27.--Ponding Frequency, Duration, and Depth--Continued

Map symbol and soil name	 January 	 February 	 March 	 April 	 May 	June	 July 	 August 	 September 	 October 	 November 	 December
W. Water	 	 	 	 	 				 	 	 	

Table 28.--Soil Features

(See text for definitions of terms used in this table. Absence of an entry indicates that the feature is not a concern or that data were not estimated)

Map symbol	Restrictive	layer	Subsid	lence	Potential	Risk of corrosion	
and soil name		Depth			for	Uncoated	
	Kind	to top	Initial	Total	frost action	steel	Concrete
		In	In	In			
3A:	 						
Totagatic	i	>80	4-12	25-30	Moderate	High	Moderate
Paratuin.	 			F0 FF	 TT - T-	 	
Bowstring	 	>80 	6-18 	50-55	High	Moderate	Low
Ausable	i	>80	4-12	25-30	Moderate	Moderate	Low
103.							
12A: Makwa	 	>80			 High	 High	Low
	İ	İ	į į			İ	İ
22A:					 TT - T-		 Wadamata
Comstock	 	>80			High 	High 	Moderate
27A:	İ	İ	i i		İ	İ	j
Scott Lake		>80			Moderate	Moderate	Moderate
28B:	 					 	
Haugen, very stony	Dense material	60-80	i i		Moderate	Moderate	Moderate
					35-3	 	115-3
Haugen	Dense material	60-80			Moderate	Moderate	Moderate
Rosholt, very stony		>80	i i		Moderate	Low	Moderate
Rosholt	 	>80			Moderate	Low	Moderate
28C:			i i				
Haugen, very stony	Dense material	60-80			Moderate	Moderate	Moderate
Haugen	 Dense material	60-80			 Moderate	 Moderate	Moderate
			i i				
Rosholt, very stony		>80			Moderate	Low	Moderate
Rosholt	 	 >80			 Moderate	 Low	Moderate
			i i				
38A:							
Rosholt	 	>80			Moderate	Low	Moderate
38B:							
Rosholt		>80			Moderate	Low	Moderate
38C:	 					 	
Rosholt		>80			Moderate	Low	Moderate
38D: Rosholt	 	 >80			 Moderate	Low	Moderate
ROBIO10							
42D:		į	į į			İ	İ
Amery	Dense material	60-80			Moderate	Low	Moderate
43B:							
Antigo		>80	ļ ļ		Moderate	Low	Moderate
43C:	 					 	
Antigo		>80			Moderate	Low	Moderate
	!	ļ	į į				
63A: Crystal Lake	 	 >80			High	Moderate	Moderate
orlocar make	!	/00	I	-	1	1-10-001-0-06	

Table 28.--Soil Features--Continued

Map symbol	Restrictive	layer	Subsid	lence	 Potential	Risk of	corrosion
and soil name	Kind	Depth	 Initial	Total	for frost action	Uncoated steel	Concrete
		In	In	In			
63B: Crystal Lake		 >80	 		 High 	 Moderate	 Moderate
63C: Crystal Lake		 >80	 		 High 	 Moderate 	 Moderate
64A: Totagatic		>80	4-12	25-30	 Moderate	 High	 Moderate
Winterfield		>80			Low	Low	Low
69C: Keweenaw		>80	 		 - Low	 Low	 Moderate
Sayner		>80			Low	Low	 High
Vilas		>80			Low	Low	 Moderate
69E: Keweenaw		>80	 		 Low	 Low	 Moderate
Sayner		>80			Low	Low	 High
Vilas		>80			Low	Low	 Moderate
82B: Cutaway		>80	 		Low	 Moderate	 Moderate
Branstad		>80			 Moderate	 Moderate	 Moderate
82C: 		>80	 		 - Low	 Moderate 	 Moderate
Branstad		>80			 Moderate	 Moderate	Moderate
83A: Smestad		 >80			 Moderate 	 High 	 Moderate
85B:		 >80	 		 Moderate 	 High 	 Moderate
85C: Taylor		 >80	 		 Moderate 	 High 	 Moderate
86A:		>80			 High	 High 	 Moderate
Alango		>80			 High	 High 	 Moderate
89A: Wildwood		>80	0-6	6-12	 High 	 High 	 Low
96B: 		 >80	 		 Moderate 	 High 	 Moderate
96C: 		 >80	 		 Moderate 	 High 	 Moderate
96D: 		 >80	 		 Moderate 	 High 	 Moderate

Table 28.--Soil Features--Continued

Map symbol	Restrictive	layer	Subsid	lence	Potential	Risk of	corrosion
and soil name	Kind	Depth to top	 Initial	Total	for frost action	Uncoated steel	Concrete
		In	In	In			
100B: Menahga	 	 >80	 		 Low 	 Low 	 High
100C: Menahga	 	 >80 	 	 	 Low 	 Low 	 High
100D: Menahga	 	 >80 			 Low 	 Low 	 High
120B: Kost	 	 >80 	 	 	 Low 	 Low 	 Moderate
127D: Amery	 Dense material	60-80	 		 Moderate 	 Low 	 Moderate
Rosholt		>80	i i		Moderate	Low	Moderate
127E: Amery	 Dense material	60-80	 		 Moderate	 Low	 Moderate
Rosholt		>80			Moderate	Low	Moderate
151A: Bluffton	 	 >80	 		 High 	 High 	 Moderate
152A: Alstad	 	 >80	 		 High 	 Moderate 	 Moderate
154E: Cushing	 	 >80 	 		 Moderate	 Moderate 	 Moderate
156B: Magnor, very stony	 Dense material	 40-60	 		 Moderate	 Moderate 	 Moderate
Magnor	Dense material	40-60			Moderate	Moderate	Moderate
157B: Freeon, very stony	 Dense material	 40-60	 		 Moderate 	 Moderate 	 Moderate
Freeon	Dense material	40-60			Moderate	Moderate	Moderate
157C: Freeon, very stony	 Dense material 	 40-60	 		 Moderate 	 Moderate 	 Moderate
Freeon	 Dense material	40-60			Moderate	 Moderate	Moderate
160A: Oesterle	 	 >80	 		 Moderate	 Moderate	 Moderate
165B: Elderon	 	 >80	 		 - Low	 Low	 Moderate
185B: Tradelake	 	 >80	 		 Moderate 	 High 	 Moderate
Taylor		>80			Moderate	 High	Moderate
185C: Tradelake	 	 >80	 		 Moderate	 High	 Moderate
Taylor	 	 >80 	 		 Moderate 	 High 	 Moderate

Table 28.--Soil Features--Continued

	Restrictive	layer	Subsid	lence		Risk of	corrosion
Map symbol and soil name		Depth	l		Potential for	Uncoated	<u> </u>
	Kind	to top	Initial	Total	frost action	'	Concrete
		In	In	In	Ī	<u> </u>	1
185D: Tradelake		>80	 		Moderate	 High	 Moderate
Taylor		>80	 		 Moderate	 High	 Moderate
1057							
185E: Tradelake		 >80	 		 Moderate 	 High 	 Moderate
Taylor		>80 	 		 Moderate 	 High 	 Moderate
189A:		İ	i i		<u> </u>	<u> </u>	İ
Siren		>80 	 		Moderate	High 	High
193A: Minocqua		>80	 		 High 	 High	 Moderate
337A: Plover		>80	 		 Moderate	 Moderate	 Moderate
			i i				İ
368B: Mahtomedi		>80	 		Low	Low	 Moderate
 Cress		>80	 		Low	 Low	 Moderate
368C: Mahtomedi		>80	 		Low	 Low	 Moderate
Cress		>80	 		Low	Low	 Moderate
			i i		İ		
368D: Mahtomedi		>80	 		Low	Low	 Moderate
Cress		>80			Low	 Low	 Moderate
368E:					 	 	l I
Mahtomedi		 >80	 		 Low 	 Low 	 Moderate
Cress		>80	 		Low	Low	 Moderate
380B:		İ	į į		İ	İ	İ
Cress		>80 	 		Low	Low	Moderate
Rosholt		>80 	 		Moderate	Low	Moderate
380C: Cress		>80	 		Low	Low	 Moderate
Rosholt		>80			 Moderate	Low	 Moderate
380D:		1	 		 	 	i I
Cress		 >80 	 		Low	 Low 	 Moderate
Rosholt		>80	 		Moderate	Low	 Moderate
383B: Mahtomedi		 >80	 		 Low	 Low	 Moderate
383C: Mahtomedi		>80	 		 - Low	Low	 Moderate
383D: Mahtomedi		 >80 	 		 Low 	 Low 	 Moderate

Table 28.--Soil Features--Continued

Map symbol	Restrictive	layer	Subsid	lence	Potential	Risk of	corrosion
and soil name	772 - 3	Depth	 	m. t 1	for	Uncoated	
	Kind	to top	Initial		frost action	steel	Concrete
	 	In	In	In	 	l I	l I
392C:	 	 			 	 	
Rockmarsh	Dense material	40-60			Moderate	 High	Moderate
Dairyland	Dense material	40-60			Low	 High 	Low
Makwa	 	 >80 	i		 High 	 High 	Low
396B:	İ	į	j i		İ	İ	İ
Friendship		>80 			Low	Low	Moderate
Wurtsmith		 >80			Low	Low	 High
Grayling		 >80			Low	Low	 Moderate
397A:							
Perchlake	 	>80 	 		Low	Low	Moderate
399B: Grayling		 >80	 		Low	Low	Moderate
399C:		į į			 	 	 -
Grayling		>80			Low	Low	Moderate
399D:	 	 			 	l I	l I
Grayling		>80			Low	Low	 Moderate
406A:	 	 			 	l I	l I
Loxley		>80	6-18	50-55	 High	 Moderate	 High
407A:	 	 			 	l I	
Seelyeville		>80	0-8	20-22	 High	Moderate	Moderate
Markey		>80	0-4	10-12	 High	Moderate	Low
410A:	 				l I	 	l I
Seelyeville		>80	0-8	20-22	 High	 Moderate	 Moderate
Cathro		>80	4-12	19-22	 High	 Moderate	 Moderate
419A:	l I					[
Seelyeville		>80	0-8	20-22	 High	 Moderate	 Moderate
Cathro		>80	4-12	19-22	 High	 Moderate	 Moderate
Markey	 	>80	0-4	10-12	 High	Moderate	Low
4013							
421A: Dora		>80	0-4	10-12	 High	Moderate	Low
Markey		 >80	0-4	10-12	 High	 Moderate	Low
Seelyeville		 >80	0-8	20-22	 High	 Moderate	 Moderate
			l i				
422A: Seelyeville	 	>80	0-8	20-22	 High	 Moderate	 Moderate
Cathro		 >80	 4-12	19-22	 High	 Moderate	 Moderate
Rondeau		 >80	0-8	19-22	 High	 High	Low
	İ	İ	İ		į	į	İ

Table 28.--Soil Features--Continued

	Restrictive	laver	Subsid	dence	1	Risk of	corrosion
Map symbol and soil name		Depth		 	Potential for	Uncoated	
	Kind	to top	Initial	Total	frost action	steel	Concrete
	!	In	In	In	[!	ļ.
426B:	1			 	 	 	l I
Emmert	 	 >80		 	 Low 	 Low 	 Moderate
Mahtomedi	 	 >80 		 	Low	 Low 	 Moderate
Menahga		 >80 	 	 	Low	Low	 High
426C: Emmert	 	>80		 	Low	Low	 Moderate
Mahtomedi	 	 >80	 	 	 Low 	 Low 	 Moderate
Menahga	 	 >80 	 	 	Low	 Low 	 High
426D:		İ	į	İ	İ	İ	İ
Emmert	 	>80 		 	Low	Low	Moderate
Mahtomedi		>80 		 	Low	Low	Moderate
Menahga		>80 		 	Low	Low	High
430A: Freya	 	 >80 	 	 	 Low 	 Low 	 Moderate
439B: Graycalm	 	 >80		 	Low	Low	 High
Menahga		 >80	 	 	Low	Low	 High
439C:	1			 	 	 	l I
Graycalm	 	 >80		 	 Low 	 Low 	 High
Menahga	 	 >80 	 	 	Low	 Low 	 High
439D: Graycalm	 	 >80	 	 	 Low	 Low	 High
Menahga	 	 >80 		 	 Low 	 Low 	 High
442C:				 			İ
Haugen	Dense material	60-80 		 	Moderate	Moderate	Moderate
Greenwood	 	>80 		 	High 	Moderate	High
443D: Amery	 Dense material	60-80		 	 Moderate	Low	 Moderate
Greenwood	 	 >80		 	 High	 Moderate	 High
459A: Loxley	 	 >80	 6-18	 50-55	 	 Moderate	 High
Daisybay	İ	>80	0-12	İ	 High	į	g High
Dawson	İ	>80	į	 30-36	İ	 Moderate	 High
	į	į	İ	ĺ	Ī	İ	İ
461A: Bowstring	 	 >80 	 6-18 	 50-55 	 High 	 Moderate 	 Low
465A: Newson		>80	 	 	 Moderate	 High	 High
Meehan	 	 >80		 	Low	 Low 	 High
	I .	I	I	I	I	I	I

Table 28.--Soil Features--Continued

Restric		layer	Subsidence		 Potential	Risk of corrosion	
and soil name	 Kind	Depth to top	 Initial	Total	for for frost action	Uncoated steel	Concrete
		In	In	In	İ		İ
469E: Bigisland	 Dense material	40-60	 		Low	Low	 Moderate
Milaca	 Dense material	40-60	 		 Moderate 	 Moderate 	 Moderate
471B: Dairyland	 Dense material	40-60	 		Low	Low	 Moderate
Emmert		>80	 		 Low 	 Low 	 Moderate
471C: Dairyland	 Dense material	40-60	 		Low	 Low	 Moderate
Emmert		 >80			 Low 	 Low 	 Moderate
472A: Rockmarsh	 Dense material	40-60	 		 Moderate	 High 	 Moderate
Clemens		>80	i i		Moderate	 High 	Moderate
473A: Dairyland	 Dense material	40-60	 		 Low	 Low	 Moderate
Skog		>80 			Low	Low	 Moderate
484A: Greenwood	 	 >80	 		 High	 Moderate	 High
Beseman		>80 	4-18	12-36	 High 	 High 	 High
485C: Lupton	 	>80	 6-18		 High	 Moderate	Low
Tawas	 	 >80 	4-12		 High 	 Moderate 	Low
495B: Karlsborg	 	>80	 		 Moderate 	 High 	 Moderate
Grettum	j	>80	i i		Low	Low	Moderate
Perida		 >80 	 		Moderate	 High 	Moderate
495C: Karlsborg	 	>80	 		 Moderate	 High	 Moderate
Grettum		>80 			Low	Low	 Moderate
Perida		 >80 	 		Moderate	 High 	Moderate
495D: Karlsborg	 	>80	 		 Moderate	 High	 Moderate
Grettum		>80 			Low	 Low 	 Moderate
Perida	 	 >80 	 		 Moderate 	 High 	 Moderate
496B: Karlsborg	 	 >80	 		 Moderate 	 High 	 Moderate
496C: Karlsborg	 	 >80 	 		 Moderate 	 High 	 Moderate

Table 28.--Soil Features--Continued

Map symbol	Restrictive layer		Subsidence		 Potential	Risk of corrosic	
and soil name	Kind	Depth to top	 Initial	Total	for frost action	Uncoated steel	 Concrete
		In	In	In			
96D: Karlsborg	 	>80			 Moderate	 High 	 Moderate
97A: Meenon	 	>80	 		 Moderate	 High	 Moderate
Dody	 	>80	 		 High 	 High	 Moderate
023A: Nokasippi	 Dense material	30-50	 		 High 	 High 	 Moderate
29B: Perida	 	>80	 		 Moderate	 High 	 Moderate
531A: Stengel	Abrupt textural change	 16-24 	i i		 Low 	 High 	 Moderate
542B: Haugen, very stony	 Dense material	60-80	 		 Moderate	 Moderate 	 Moderate
Haugen	 Dense material	60-80			Moderate	Moderate	Moderate
642C: Haugen, very stony	 Dense material	60-80			 Moderate	 Moderate	 Moderate
Haugen	Dense material	60-80			Moderate	Moderate	Moderate
544F: Menahga	 	>80	 		Low	Low	 High
Mahtomedi	 	 >80			Low	Low	 Moderate
553B: Branstad	 	>80			 Moderate	 Moderate	 Moderate
553C: Branstad	 	>80			 Moderate 	 Moderate 	 Moderate
553D: Branstad		>80	 		 Moderate 	 Moderate 	 Moderate
555A: Fordum	 	>80	 		 High	 High	Low
557B: Shawano	 	>80	 		Low	 Low	 High
557C: Shawano	 	>80			 	 Low 	 High
557D: Shawano	 	>80	 		 	 Low 	 High
586A: Chelmo	 	>80	 		 High 	 High 	 Moderate
600A: Haplosaprists.	 					 	
Psammaquents.	! 		1 1		1	1 	1

Table 28.--Soil Features--Continued

Map symbol and soil name	Restrictive layer		Subsidence		 Potential	Risk of corrosion	
	 Kind	Depth to top	 Initial	Total	for frost action	Uncoated steel	Concrete
		In	In	In			
615B: Cress	 	 >80	 		 Low	 Low	 Moderate
615C: Cress	 	 >80	 		 Low 	 Low 	 Moderate
615D: Cress	 	 >80 	 		 Low 	 Low 	 Moderate
620C: Lundeen	 Bedrock (lithic)	20-40	 		 High	 Low 	 Moderate
Haustrup	Bedrock (lithic)	10-20			Moderate	Low	Moderate
Rock outcrop.	 	 	 		 	 	
621A: Bjorkland	 	 >80	 		 Moderate	 Moderate	 High
623A: Capitola	 Dense material	20-40	 		 High	 High	 Moderate
624A: Ossmer	 	>80			 Moderate	 Moderate	 Moderate
631A: Giese	 Dense material 	 40-80 	 		 High 	 High 	 High
632A: Aftad	 	 >80	 		 Moderate 	 Moderate 	 Moderate
632B: Aftad	 	 >80			 Moderate	 Moderate	 Moderate
632C: Aftad	 	 >80 	 		 Moderate 	 Moderate 	 Moderate
634C: Drylanding	 Bedrock (lithic)	10-20	 		 High	 Moderate	Low
Beartree	 Bedrock (lithic)	10-20			High	 High	Low
Rock outcrop.	 	 	 		 	 	
635C: Drylanding	 Bedrock (lithic)	10-20	i 		 High	 Moderate	Low
Beartree	 Bedrock (lithic)	10-20			 High	 High	Low
Rock outcrop.	 	 	 		 	 -	
648B: Sconsin	 Dense material	 20-38 	 		 Moderate 	 Moderate 	 Moderate
669D: Fremstadt, stony	 	 >80	 		Low	 Low	 High
Pomroy	 Dense material 	 40-60 	 		 Moderate 	 Moderate 	 Moderate

Table 28.--Soil Features--Continued

Map symbol	Restrictive layer		Subsidence		 Potential	Risk of corrosion	
and soil name	Kind	Depth	 Initial		for frost action	Uncoated steel	Concrete
	 	In 	In 	In		 	
671B: Spoonerhill, stony	 	>80			Low	 Low	 Moderate
Spoonerhill	 	>80			Low	 Low 	 Moderate
706A: Winterfield	 	>80	 		Low	 Low	 Low
Totagatic	 	>80	i i		 Moderate	 High	Moderate
715A: Mora	 Dense material	 40-60	 		 High	 Moderate	 Moderate
717B: Milaca	 Dense material	40-60	 		 Moderate	 Moderate	 Moderate
717C: Milaca	 Dense material	40-60	 		 Moderate	 Moderate	 Moderate
720F: Haustrup	 Bedrock (lithic)	10-20			 Moderate	 Low	 Moderate
Lundeen	 Bedrock (lithic) 	20-40			 High 	 Low 	 Moderate
Rock outcrop.							
726B: Sissabagama		>80	 		Low	Low	 Moderate
742B: Milaca	 Dense material	40-60	 		 Moderate	 Moderate	 Moderate
742C: Milaca	 Dense material	40-60	 		 Moderate	 Moderate	 Moderate
742D: Milaca	 Dense material	40-60			 Moderate	 Moderate	 Moderate
755A: Moppet	 	>80			 Moderate	 Moderate	 Moderate
Fordum	 	>80			 High 	 High 	 High
771A: Lenroot	 	 >80	 		Low	 Low	 Moderate
812B: Mora	 Dense material	40-60	 		 High 	 Moderate 	 Moderate
825A: Meehan	 	 >80	 		Low	 Low	 High
896A: Wurtsmith	 	 >80 	 		 Low 	Low	 High
980A: Soderbeck	 Bedrock (lithic)	 40-60 	 		 Moderate 	 High 	 Moderate
1070C: Fremstadt		>80	i i		Low	Low	Moderate
Cress	 	>80	 		Low	Low	Moderate

Table 28.--Soil Features--Continued

	Restrictive layer		Subsidence		I	Pigh of gorrogion	
Map symbol and soil name	<u> </u>		Subsidence		Potential for	Risk of corrosion	
and soil name	 Kind	Depth to top	 Initial	Total	frost action		 Concrete
		In	In	In		50001	
						 	!
1070D:		İ	i i		İ		
Fremstadt		>80			Low	Low	Moderate
Cress		>80			Low	Low	Moderate
1000-							
1080B:	 		 			Low	 Moderate
Spoonerhill		>80			Low	LOW	Moderate
Spoonerhill, stony		 >80			Low	Low	Moderate
agranda, actua							
Cress	i	>80	i i		Low	Low	Moderate
	j	İ	j i		į	İ	İ
2002.							
Udorthents, earthen							
dams			! !				
2015.		 				 	
Pits	 	 			 	 	
1105	! 	 			 	 	
2050.		! 					
Landfill	j	İ	j i		İ	İ	İ
3011A:							
Barronett		>80			High	High	Moderate
3082E: Braham	 	 >80	 		Low	 Moderate	 Moderate
branam	 	>00 			LTOM	Moderate	Moderate
Shawano		 >80			Low	Low	 High
			i i		İ		İ
3114A:	j	İ	j i		į	İ	İ
Saprists		>80			High	Moderate	Moderate
	!						
Aquents		>80			Moderate	High	High
Aquepts	 	 >80	 		 High	 u:ab	 Moderate
Aquepts	 	>00 			mign	High	Moderate
3125A:		 				! 	
Meehan		>80			Low	Low	High
	j	İ	j i		į	İ	į
3126A:							
Wurtsmith		>80			Low	Low	High
22105							
3312B: Glendenning, very stony	 Dongo matorial	 60-80	 		 Moderate	 Moderate	 Moderate
Grendenning, very scony	Delise Macerial	00-00			Moderace	Moderate	Moderace
Glendenning	Dense material	60-80			Moderate	Moderate	Moderate
_	j	İ	j i		İ	İ	İ
3336A:							
Fenander		>80			High	High	Low
2422							
3403A: Loxley	 		(10	F0 FF	 *** 'b	 	
roxteA		>80	0-18	50-55	High	Moderate	High
Beseman	 	 >80	4-18	12-36	High	 Moderate	 High
	İ						, J
Dawson		>80	4-18	30-36	High	Moderate	High
			I i				
3429B:							
Lara		>80			Low	Low	High
					I	l	l

Table 28.--Soil Features--Continued

Map symbol	Restrictive layer		Subsidence		 Potential	Risk of corrosion	
and soil name	 Kind	Depth to top	 Initial		for frost action	Uncoated steel	Concrete
		In	In 	In	l I	 	
429C: Lara	 	 >80	 		 Low	 Low	 High
446A: Newson	 	 >80	 		 Moderate	 High	 High
448B: Grettum	 	>80	 		Low	 Low	 Moderate
448C: Grettum	 	 >80	 		Low	 Low	 Moderate
510B: Pomroy	 Dense material	40-60			 Moderate	 Moderate	 Moderate
Fremstadt		>80			Low	Low	High
Fremstadt, stony	 	 >80 			 Low 	 Low 	 High
3510C: Pomroy	 Dense material	40-60	i 		 Moderate	 Moderate	Moderate
Fremstadt		>80			Low	Low	High
Fremstadt, stony	 	 >80	 		 Low	 Low	 High
511A: Bushville	 Dense material	40-60	 		 Low	 Moderate	 Moderate
S16A: Slimlake	 	>80	 		Low	 Low	 Moderate
625A: Lino	 	>80	 		 Low	 Low	 Moderate
626A: Crex	 	>80	 		 - Low	 Low	 High
629B: Perida	 	>80	 		 Moderate	 High	 Moderate
636B: Plainbo	 Bedrock (paralithic)	20-40	 		 Low	 Low	 High
	Redrock (lithic)	60-80			 	 	
636C: Plainbo	 Bedrock (paralithic) Bedrock (lithic)	 20-40 60-80	 		 Low 	 Low 	 High
M-W. Miscellaneous water	 	 	 		 	 	
Water	 	 	 		 	 	

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Glossary

Many of the terms relating to landforms, geology, and geomorphology are defined in more detail in the "National Soil Survey Handbook" (available in local offices of the Natural Resources Conservation Service or on the Internet).

- **Ablation till.** Loose, relatively permeable earthy material deposited during the downwasting of nearly static glacial ice, either contained within or accumulated on the surface of the glacier.
- **Aeration, soil.** The exchange of air in soil with air from the atmosphere. The air in a well aerated soil is similar to that in the atmosphere; the air in a poorly aerated soil is considerably higher in carbon dioxide and lower in oxygen.
- **Aggregate, soil.** Many fine particles held in a single mass or cluster. Natural soil aggregates, such as granules, blocks, or prisms, are called peds. Clods are aggregates produced by tillage or logging.
- **Alluvium.** Unconsolidated material, such as gravel, sand, silt, clay, and various mixtures of these, deposited on land by running water.
- **Alpha,alpha-dipyridyl.** A compound that when dissolved in ammonium acetate is used to detect the presence of reduced iron (Fe II) in the soil. A positive reaction implies reducing conditions and the likely presence of redoximorphic features.
- **Aquic conditions.** Current soil wetness characterized by saturation, reduction, and redoximorphic features.
- **Argillic horizon.** A subsoil horizon characterized by an accumulation of illuvial clay. **Aspect.** The direction toward which a slope faces. Also called slope aspect.
- **Association, soil.** A group of soils or miscellaneous areas geographically associated in a characteristic repeating pattern and defined and delineated as a single map unit.
- Available water capacity (available moisture capacity). The capacity of soils to hold water available for use by most plants. It is commonly defined as the difference between the amount of soil water at field moisture capacity and the amount at wilting point. It is commonly expressed as inches of water per inch of soil. The capacity, in inches, in a 60-inch profile or to a limiting layer is expressed as:

Very low	0 to 3
Low	3 to 6
Moderate	6 to 9
High	9 to 12
Very high	more than 12

Backslope. The position that forms the steepest and generally linear, middle portion of a hillslope. In profile, backslopes are commonly bounded by a convex shoulder above and a concave footslope below.

Basal till. Compact till deposited beneath the glacial ice.

- **Base saturation.** The degree to which material having cation-exchange properties is saturated with exchangeable bases (sum of Ca, Mg, Na, and K), expressed as a percentage of the total cation-exchange capacity.
- **Base slope** (geomorphology). A geomorphic component of hills consisting of the concave to linear (perpendicular to the contour) slope that, regardless of the

lateral shape, forms an apron or wedge at the bottom of a hillside dominated by colluvium and slope-wash sediments (for example, slope alluvium).

- **Beach deposits.** Material, such as sand and gravel, that is generally laid down parallel to an active or relict shoreline of a postglacial or glacial lake.
- **Beach ridge.** A low, essentially continuous mound of beach or beach-and-dune material accumulated by the action of waves and currents on the backshore of a beach, beyond the present limit of storm waves or the reach of ordinary tides, and occurring singly or as one of a series of approximately parallel deposits. The ridges are roughly parallel to the shoreline and represent successive positions of an advancing shoreline.
- **Bedding plane.** A planar or nearly planar bedding surface that visibly separates each successive layer of stratified sediment or rock (of the same or different lithology) from the preceding or following layer; a plane of deposition. It commonly marks a change in the circumstances of deposition and may show a parting, a color difference, a change in particle size, or various combinations of these. The term is commonly applied to any bedding surface, even one that is conspicuously bent or deformed by folding.
- **Bedrock.** The solid rock that underlies the soil and other unconsolidated material or that is exposed at the surface.
- **Bedrock-controlled topography.** A landscape where the configuration and relief of the landforms are determined or strongly influenced by the underlying bedrock.
- **Bench terrace.** A raised, level or nearly level strip of earth constructed on or nearly on a contour, supported by a barrier of rocks or similar material, and designed to make the soil suitable for tillage and to prevent accelerated erosion.
- **Bisequum.** Two sequences of soil horizons, each of which consists of an illuvial horizon and the overlying eluvial horizons.
- **Blowout.** A saucer-, cup-, or trough-shaped depression formed by wind erosion on a preexisting dune or other sand deposit, especially in an area of shifting sand or loose soil or where protective vegetation is disturbed or destroyed; the adjoining accumulation of sand derived from the depression, where recognizable, is commonly included. Blowouts are commonly small.
- **Board foot.** A unit of measurement represented by a board 1 foot wide, 1 foot long, and 1 inch thick.
- **Bog.** Waterlogged, spongy ground, consisting primarily of mosses, containing acidic, decaying vegetation (such as sphagnum, sedges, and heaths) that develops into peat.
- **Boulders.** Rock fragments larger than 2 feet (60 centimeters) in diameter.
- **Brush management.** Use of mechanical, chemical, or biological methods to make conditions favorable for reseeding or to reduce or eliminate competition from woody vegetation and thus allow understory grasses and forbs to recover. Brush management increases forage production and thus reduces the hazard of erosion. It can improve the habitat for some species of wildlife.
- **Calcareous soil.** A soil containing enough calcium carbonate (commonly combined with magnesium carbonate) to effervesce visibly when treated with cold, dilute hydrochloric acid.
- **California bearing ratio** (CBR). The load-supporting capacity of a soil as compared to that of standard crushed limestone, expressed as a ratio. First standardized in California. A soil having a CBR of 16 supports 16 percent of the load that would be supported by standard crushed limestone, per unit area, with the same degree of distortion.
- **Canopy.** The leafy crown of trees or shrubs. (See Crown.)
- **Capillary water.** Water held as a film around soil particles and in tiny spaces between particles. Surface tension is the adhesive force that holds capillary water in the soil.

- **Catena.** A sequence, or "chain," of soils on a landscape that formed in similar kinds of parent material and under similar climatic conditions but that have different characteristics as a result of differences in relief and drainage.
- **Cation.** An ion carrying a positive charge of electricity. The common soil cations are calcium, potassium, magnesium, sodium, and hydrogen.
- **Cation-exchange capacity.** The total amount of exchangeable cations that can be held by the soil, expressed in terms of milliequivalents per 100 grams of soil at neutrality (pH 7.0) or at some other stated pH value. The term, as applied to soils, is synonymous with base-exchange capacity but is more precise in meaning.

Catsteps. See Terracettes.

- **Channery soil material.** Soil material that has, by volume, 15 to 35 percent thin, flat fragments of sandstone, shale, slate, limestone, or schist as much as 6 inches (15 centimeters) along the longest axis. A single piece is called a channer.
- **Chemical treatment.** Control of unwanted vegetation through the use of chemicals. **Chiseling.** Tillage with an implement having one or more soil-penetrating points that shatter or loosen hard, compacted layers to a depth below normal plow depth.
- Clay. As a soil separate, the mineral soil particles less than 0.002 millimeter in diameter. As a soil textural class, soil material that is 40 percent or more clay, less than 45 percent sand, and less than 40 percent silt.

Clay depletions. See Redoximorphic features.

- **Clay film.** A thin coating of oriented clay on the surface of a soil aggregate or lining pores or root channels. Synonyms: clay coating, clay skin.
- **Clay spot (map symbol).** A spot where the surface layer is silty clay or clay in an area where the surface layer of the surrounding soil is sandy loam, loam, silt loam, or coarser. Typically less than 4 acres.
- **Climax plant community.** The stabilized plant community on a particular site. The plant cover reproduces itself and does not change so long as the environment remains the same.
- **Closed depression (map symbol).** A shallow, saucer-shaped area that is slightly lower on the landscape than the surrounding area and is without a natural outlet for surface drainage. Typically less than 4 acres.

Coarse textured soil. Sand or loamy sand.

- **Cobble (or cobblestone).** A rounded or partly rounded fragment of rock 3 to 10 inches (7.6 to 25 centimeters) in diameter.
- **Cobbly soil material.** Material that has 15 to 35 percent, by volume, rounded or partially rounded rock fragments 3 to 10 inches (7.6 to 25 centimeters) in diameter. Very cobbly soil material has 35 to 60 percent of these rock fragments, and extremely cobbly soil material has more than 60 percent.
- **COLE** (coefficient of linear extensibility). See Linear extensibility.
- **Colluvium.** Unconsolidated, unsorted earth material being transported or deposited on side slopes and/or at the base of slopes by mass movement (e.g., direct gravitational action) and by local, unconcentrated runoff.
- **Complex slope.** Irregular or variable slope. Planning or establishing terraces, diversions, and other water-control structures on a complex slope is difficult.
- **Complex, soil.** A map unit of two or more kinds of soil or miscellaneous areas in such an intricate pattern or so small in area that it is not practical to map them separately at the selected scale of mapping. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas.

Concretions. See Redoximorphic features.

Conservation cropping system. Growing crops in combination with needed cultural and management practices. In a good conservation cropping system, the soil-improving crops and practices more than offset the effects of the soil-depleting crops and practices. Cropping systems are needed on all tilled soils. Soil-improving practices in a conservation cropping system include the use of rotations

that contain grasses and legumes and the return of crop residue to the soil. Other practices include the use of green manure crops of grasses and legumes, proper tillage, adequate fertilization, and weed and pest control.

- **Conservation tillage.** A tillage system that does not invert the soil and that leaves a protective amount of crop residue on the surface throughout the year.
- Consistence, soil. Refers to the degree of cohesion and adhesion of soil material and its resistance to deformation when ruptured. Consistence includes resistance of soil material to rupture and to penetration; plasticity, toughness, and stickiness of puddled soil material; and the manner in which the soil material behaves when subject to compression. Terms describing consistence are defined in the "Soil Survey Manual."
- **Contour stripcropping.** Growing crops in strips that follow the contour. Strips of grass or close-growing crops are alternated with strips of clean-tilled crops or summer fallow.
- **Coprogenous earth (sedimentary peat).** A type of limnic layer composed predominantly of fecal material derived from aquatic animals.
- **Cord.** A unit of measurement of stacked wood. A standard cord occupies 128 cubic feet with dimensions of 4 feet by 4 feet by 8 feet.
- **Corrosion** (geomorphology). A process of erosion whereby rocks and soil are removed or worn away by natural chemical processes, especially by the solvent action of running water, but also by other reactions, such as hydrolysis, hydration, carbonation, and oxidation.
- **Corrosion** (soil survey interpretations). Soil-induced electrochemical or chemical action that dissolves or weakens concrete or uncoated steel.
- **Cover crop.** A close-growing crop grown primarily to improve and protect the soil between periods of regular crop production, or a crop grown between trees and vines in orchards and vineyards.
- **Crop residue management.** Returning crop residue to the soil, which helps to maintain soil structure, organic matter content, and fertility and helps to control erosion
- **Cropping system.** Growing crops according to a planned system of rotation and management practices.
- **Cross-slope farming.** Deliberately conducting farming operations on sloping farmland in such a way that tillage is across the general slope.
- **Crown.** The upper part of a tree or shrub, including the living branches and their foliage.
- **Culmination of the mean annual increment (CMAI).** The average annual increase per acre in the volume of a stand. Computed by dividing the total volume of the stand by its age. As the stand increases in age, the mean annual increment continues to increase until mortality begins to reduce the rate of increase. The point where the stand reaches its maximum annual rate of growth is called the culmination of the mean annual increment.
- **Cut or fill area (map symbol).** A small area where the original soil profile has been altered by the addition or removal of more than about 1 foot of soil material. Includes former pits that have been reclaimed. Each symbol represents one area or several closely grouped areas totaling less than 4 acres.
- **Cutbanks cave** (in tables). The walls of excavations tend to cave in or slough.
- **Decreasers.** The most heavily grazed climax range plants. Because they are the most palatable, they are the first to be destroyed by overgrazing.
- **Deferred grazing.** Postponing grazing or resting grazing land for a prescribed period. **Delta.** A body of alluvium having a surface that is fan shaped and nearly flat; deposited at or near the mouth of a river or stream where it enters a body of relatively quiet water, generally a sea or lake.

- **Dense layer** (in tables). A very firm, massive layer that has a bulk density of more than 1.8 grams per cubic centimeter. Such a layer affects the ease of digging and can affect filling and compacting.
- **Depression.** Any relatively sunken part of the earth's surface; especially a low-lying area surrounded by higher ground. A closed depression has no natural outlet for surface drainage. An open depression has a natural outlet for surface drainage.
- **Depth, soil.** Generally, the thickness of the soil over bedrock. Very deep soils are more than 60 inches deep over bedrock; deep soils, 40 to 60 inches; moderately deep, 20 to 40 inches; shallow, 10 to 20 inches; and very shallow, less than 10 inches.
- **Disintegration moraine.** A drift topography characterized by chaotic mounds and pits, generally randomly oriented, developed in supraglacial drift by collapse and flow as the underlying stagnant ice melted. Slopes may be steep and unstable. Abrupt changes between materials of differing lithology are common.
- **Diversion (or diversion terrace).** A ridge of earth, generally a terrace, built to protect downslope areas by diverting runoff from its natural course.
- Drainage class (natural). Refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized—excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."
- **Drainage**, **surface**. Runoff, or surface flow of water, from an area.
- **Drainageway.** A general term for a course or channel along which water moves in draining an area. A term restricted to relatively small, linear depressions that at some time move concentrated water and either do not have a defined channel or have only a small defined channel.
- **Drift.** A general term applied to all mineral material (clay, silt, sand, gravel, and boulders) transported by a glacier and deposited directly by or from the ice or transported by running water emanating from a glacier. Drift includes unstratified material (till) that forms moraines and stratified deposits that form outwash plains, eskers, kames, varves, and glaciofluvial sediments. The term is generally applied to Pleistocene glacial deposits in areas that no longer contain glaciers.
- **Drumlin.** A low, smooth, elongated oval hill, mound, or ridge of compact till that has a core of bedrock or drift. It commonly has a blunt nose facing the direction from which the ice approached and a gentler slope tapering in the other direction. The longer axis is parallel to the general direction of glacier flow. Drumlins are products of streamline (laminar) flow of glaciers, which molded the subglacial floor through a combination of erosion and deposition.
- **Dry spot (map symbol).** A small area of moderately well drained to excessively drained soil within a poorly drained or very poorly drained area of mineral soil, or a somewhat poorly drained to excessively drained soil within a map unit consisting mainly of organic soil. Each symbol represents one area or several closely grouped areas totaling less than 4 acres.
- **Duff.** A generally firm organic layer on the surface of mineral soils. It consists of fallen plant material that is in the process of decomposition and includes everything from the litter on the surface to underlying pure humus.
- **Eluviation.** The movement of material in true solution or colloidal suspension from one place to another within the soil. Soil horizons that have lost material through eluviation are eluvial; those that have received material are illuvial.
- **End moraine.** A ridgelike accumulation produced at the outer margin of an actively flowing glacier at any given time.

Endosaturation. A type of saturation of the soil in which all horizons between the upper boundary of saturation and a depth of 2 meters are saturated.

- **Eolian deposit.** Sand-, silt-, or clay-sized clastic material transported and deposited primarily by wind, commonly in the form of a dune or a sheet of sand or loess.
- **Ephemeral stream.** A stream, or reach of a stream, that flows only in direct response to precipitation. It receives no long-continued supply from melting snow or other source, and its channel is above the water table at all times.
- **Episaturation.** A type of saturation indicating a perched water table in a soil in which saturated layers are underlain by one or more unsaturated layers within 2 meters of the surface.
- **Erosion.** The wearing away of the land surface by water, wind, ice, or other geologic agents and by such processes as gravitational creep.
 - *Erosion* (geologic). Erosion caused by geologic processes acting over long geologic periods and resulting in the wearing away of mountains and the building up of such landscape features as flood plains and coastal plains. Synonym: natural erosion.
 - *Erosion* (accelerated). Erosion much more rapid than geologic erosion, mainly as a result of human or animal activities or of a catastrophe in nature, such as a fire, that exposes the surface.
- **Erosion pavement.** A surficial lag concentration or layer of gravel and other rock fragments that remains on the soil surface after sheet or rill erosion or wind has removed the finer soil particles and that tends to protect the underlying soil from further erosion.
- **Erosion surface.** A land surface shaped by the action of erosion, especially by running water.
- **Escarpment.** A relatively continuous and steep slope or cliff breaking the general continuity of more gently sloping land surfaces and resulting from erosion or faulting. Most commonly applied to cliffs produced by differential erosion.
- **Escarpment**, **bedrock (map symbol)**. A relatively continuous and steep slope or cliff breaking the general continuity of more gently sloping land surfaces and resulting from erosion or faulting. Exposed material is hard or soft bedrock.
- **Escarpment, nonbedrock (map symbol).** A relatively continuous and steep slope or cliff breaking the general continuity of more gently sloping land surfaces and resulting from erosion or faulting. Exposed material is nonsoil or very shallow soil.
- **Esker.** A long, narrow, sinuous, steep-sided ridge of stratified sand and gravel deposited as the bed of a stream flowing in an ice tunnel within or below the ice (subglacial) or between ice walls on top of the ice of a wasting glacier and left behind as high ground when the ice melted. Eskers range in length from less than a kilometer to more than 160 kilometers and in height from 3 to 30 meters.
- **Fan remnant.** A general term for landforms that are the remaining parts of older fan landforms, such as alluvial fans, that have been either dissected or partially buried.
- **Fertility, soil.** The quality that enables a soil to provide plant nutrients, in adequate amounts and in proper balance, for the growth of specified plants when light, moisture, temperature, tilth, and other growth factors are favorable.
- **Fibric soil material (peat).** The least decomposed of all organic soil material. Peat contains a large amount of well preserved fiber that is readily identifiable according to botanical origin. Peat has the lowest bulk density and the highest water content at saturation of all organic soil material.
- **Field moisture capacity.** The moisture content of a soil, expressed as a percentage of the ovendry weight, after the gravitational, or free, water has drained away; the field moisture content 2 or 3 days after a soaking rain; also called *normal field capacity*, *normal moisture capacity*, or *capillary capacity*.
- Fine textured soil. Sandy clay, silty clay, or clay.

- **Firebreak.** An area cleared of flammable material to stop or help control creeping or running fires. It also serves as a line from which to work and to facilitate the movement of firefighters and equipment. Designated roads also serve as firebreaks.
- **Flaggy soil material.** Material that has, by volume, 15 to 35 percent flagstones. Very flaggy soil material has 35 to 60 percent flagstones, and extremely flaggy soil material has more than 60 percent flagstones.
- **Flagstone.** A thin fragment of sandstone, limestone, slate, shale, or (rarely) schist 6 to 15 inches (15 to 38 centimeters) long.
- **Flood plain.** The nearly level plain that borders a stream and is subject to flooding unless protected artificially.
- **Flood-plain landforms.** A variety of constructional and erosional features produced by stream channel migration and flooding. Examples include backswamps, floodplain splays, meanders, meander belts, meander scrolls, oxbow lakes, and natural levees.
- **Flood-plain splay.** A fan-shaped deposit or other outspread deposit formed where an overloaded stream breaks through a levee (natural or artificial) and deposits its material (commonly coarse grained) on the flood plain.
- **Flood-plain step.** An essentially flat, terrace-like alluvial surface within a valley that is frequently covered by floodwater from the present stream; any approximately horizontal surface still actively modified by fluvial scour and/or deposition. May occur individually or as a series of steps.
- **Fluvial.** Of or pertaining to rivers or streams; produced by stream or river action.
- **Footslope.** The concave surface at the base of a hillslope. A footslope is a transition zone between upslope sites of erosion and transport (shoulders and backslopes) and downslope sites of deposition (toeslopes).
- **Forb.** Any herbaceous plant not a grass or a sedge.
- **Forest cover.** All trees and other woody plants (underbrush) covering the ground in a forest.
- **Forest habitat type.** An association of dominant tree and ground flora species in a climax community.
- **Fragipan.** A loamy, brittle subsurface horizon low in porosity and content of organic matter and low or moderate in clay but high in silt or very fine sand. A fragipan appears cemented and restricts roots. When dry, it is hard or very hard and has a higher bulk density than the horizon or horizons above. When moist, it tends to rupture suddenly under pressure rather than to deform slowly.
- **Genesis, soil.** The mode of origin of the soil. Refers especially to the processes or soil-forming factors responsible for the formation of the solum, or true soil, from the unconsolidated parent material.
- **Glaciofluvial deposits.** Material moved by glaciers and subsequently sorted and deposited by streams flowing from the melting ice. The deposits are stratified and occur in the form of outwash plains, valley trains, deltas, kames, eskers, and kame terraces.
- **Glaciolacustrine deposits.** Material ranging from fine clay to sand derived from glaciers and deposited in glacial lakes mainly by glacial meltwater. Many deposits are bedded or laminated.
- **Gleyed soil.** Soil that formed under poor drainage, resulting in the reduction of iron and other elements in the profile and in gray colors.
- **Graded stripcropping.** Growing crops in strips that grade toward a protected waterway.
- **Grassed waterway.** A natural or constructed waterway, typically broad and shallow, seeded to grass as protection against erosion. Conducts surface water away from cropland.

Gravel. Rounded or angular fragments of rock as much as 3 inches (2 millimeters to 7.6 centimeters) in diameter. An individual piece is a pebble.

- **Gravel pit (map symbol).** An open excavation from which soil and underlying material have been removed and used, without crushing, as a source of sand or gravel. Typically less than 4 acres.
- **Gravelly soil material.** Material that has 15 to 35 percent, by volume, rounded or angular rock fragments, not prominently flattened, as much as 3 inches (7.6 centimeters) in diameter.
- **Gravelly spot (map symbol).** An area where the surface layer has more than 35 percent, by volume, rock fragments that are mostly less than 3 inches in diameter within an area that has less than 15 percent rock fragments. Typically less than 4 acres.
- **Green manure crop** (agronomy). A soil-improving crop grown to be plowed under in an early stage of maturity or soon after maturity.
- **Ground water.** Water filling all the unblocked pores of the material below the water table.
- **Gully.** A small channel with steep sides caused by erosion and cut in unconsolidated materials by concentrated but intermittent flow of water. The distinction between a gully and a rill is one of depth. A gully generally is an obstacle to farm machinery and is too deep to be obliterated by ordinary tillage; a rill is of lesser depth and can be smoothed over by ordinary tillage.
- **Hard bedrock.** Bedrock that cannot be excavated except by blasting or by the use of special equipment that is not commonly used in construction.
- Hard to reclaim (in tables). Reclamation is difficult after the removal of soil for construction and other uses. Revegetation and erosion control are extremely difficult
- **Head slope (geomorphology).** A geomorphic component of hills consisting of a laterally concave area of a hillside, especially at the head of a drainageway. The overland waterflow is converging.
- **Hemic soil material (mucky peat).** Organic soil material intermediate in degree of decomposition between the less decomposed fibric material and the more decomposed sapric material.
- **High-residue crops.** Such crops as small grain and corn used for grain. If properly managed, residue from these crops can be used to control erosion until the next crop in the rotation is established. These crops return large amounts of organic matter to the soil.
- **Hill.** A generic term for an elevated area of the land surface, rising as much as 1,000 feet above surrounding lowlands, commonly of limited summit area and having a well defined outline. Slopes are generally more than 15 percent. The distinction between a hill and a mountain is arbitrary and may depend on local usage.
- **Hillslope.** A generic term for the steeper part of a hill between its summit and the drainage line, valley flat, or depression floor at the base of a hill.
- Horizon, soil. A layer of soil, approximately parallel to the surface, having distinct characteristics produced by soil-forming processes. In the identification of soil horizons, an uppercase letter represents the major horizons. Numbers or lowercase letters that follow represent subdivisions of the major horizons. An explanation of the subdivisions is given in the "Soil Survey Manual." The major horizons of mineral soil are as follows:
 - O horizon.—An organic layer of fresh and decaying plant residue.
 - *L horizon.*—A layer of organic and mineral limnic materials, including coprogenous earth (sedimentary peat), diatomaceous earth, and marl.

A horizon.—The mineral horizon at or near the surface in which an accumulation of humified organic matter is mixed with the mineral material. Also, a plowed surface horizon, most of which was originally part of a B horizon.

E horizon.—The mineral horizon in which the main feature is loss of silicate clay, iron, aluminum, or some combination of these.

B horizon.—The mineral horizon below an A horizon. The B horizon is in part a layer of transition from the overlying A to the underlying C horizon. The B horizon also has distinctive characteristics, such as (1) accumulation of clay, sesquioxides, humus, or a combination of these; (2) prismatic or blocky structure; (3) redder or browner colors than those in the A horizon; or (4) a combination of these.

C horizon.—The mineral horizon or layer, excluding indurated bedrock, that is little affected by soil-forming processes and does not have the properties typical of the overlying soil material. The material of a C horizon may be either like or unlike that in which the solum formed. If the material is known to differ from that in the solum, an Arabic numeral, commonly a 2, precedes the letter C.

Cr horizon.—Soft, consolidated bedrock beneath the soil.

R layer.—Consolidated bedrock beneath the soil. The bedrock commonly underlies a C horizon, but it can be directly below an A or a B horizon.

- **Humus.** The well decomposed, more or less stable part of the organic matter in mineral soils.
- **Hydrologic soil groups.** Refers to soils grouped according to their runoff potential. The soil properties that influence this potential are those that affect the minimum rate of water infiltration on a bare soil during periods after prolonged wetting when the soil is not frozen. These properties are depth to a seasonal high water table, the infiltration rate and permeability after prolonged wetting, and depth to a very slowly permeable layer. The slope and the kind of plant cover are not considered but are separate factors in predicting runoff.
- **Ice-walled lake plain.** A relict surface marking the floor of an extinct lake basin that was formed on solid ground and surrounded by stagnant ice in a stable or unstable superglacial environment on stagnation moraines. As the ice melted, the lake plain became perched above the adjacent landscape. The lake plain is well sorted, generally fine textured, stratified deposits.
- **Igneous rock.** Rock that was formed by cooling and solidification of magma and that has not been changed appreciably by weathering since its formation. Major varieties include plutonic and volcanic rock (e.g., andesite, basalt, and granite).
- **Illuviation.** The movement of soil material from one horizon to another in the soil profile. Generally, material is removed from an upper horizon and deposited in a lower horizon.
- **Impervious soil.** A soil through which water, air, or roots penetrate slowly or not at all. No soil is absolutely impervious to air and water all the time.
- **Increasers.** Species in the climax vegetation that increase in amount as the more desirable plants are reduced by close grazing. Increasers commonly are the shorter plants and the less palatable to livestock.
- **Infiltration.** The downward entry of water into the immediate surface of soil or other material, as contrasted with percolation, which is movement of water through soil layers or material.
- **Infiltration capacity.** The maximum rate at which water can infiltrate into a soil under a given set of conditions.
- **Infiltration rate.** The rate at which water penetrates the surface of the soil at any given instant, usually expressed in inches per hour. The rate can be limited by the infiltration capacity of the soil or the rate at which water is applied at the surface.
- **Intake rate.** The average rate of water entering the soil under irrigation. Most soils have a fast initial rate; the rate decreases with application time. Therefore, intake

rate for design purposes is not a constant but is a variable depending on the net irrigation application. The rate of water intake, in inches per hour, is expressed as follows:

Less than 0.2	very low
0.2 to 0.4	low
0.4 to 0.75	moderately low
0.75 to 1.25	moderate
1.25 to 1.75	moderately high
1.75 to 2.5	high
More than 2.5	very high

- **Interfluve.** A landform composed of the relatively undissected upland or ridge between two adjacent valleys containing streams flowing in the same general direction. An elevated area between two drainageways that sheds water to those drainageways.
- Interfluve (geomorphology). A geomorphic component of hills consisting of the uppermost, comparatively level or gently sloping area of a hill; shoulders of backwearing hillslopes can narrow the upland or can merge, resulting in a strongly convex shape.
- Intermittent stream. A stream, or reach of a stream, that does not flow year-round but that is commonly dry for 3 or more months out of 12 and whose channel is generally below the local water table. It flows only during wet periods or when it receives ground-water discharge or long, continued contributions from melting snow or other surface and shallow subsurface sources.
- **Invaders.** On range, plants that encroach into an area and grow after the climax vegetation has been reduced by grazing. Generally, plants invade following disturbance of the surface.

Iron depletions. See Redoximorphic features.

Irrigation. Application of water to soils to assist in production of crops. Methods of irrigation are:

Basin.—Water is applied rapidly to nearly level plains surrounded by levees or dikes.

Border.—Water is applied at the upper end of a strip in which the lateral flow of water is controlled by small earth ridges called border dikes, or borders.

Controlled flooding—Water is released at intervals from closely spaced field.

Controlled flooding.—Water is released at intervals from closely spaced field ditches and distributed uniformly over the field.

Corrugation.—Water is applied to small, closely spaced furrows or ditches in fields of close-growing crops or in orchards so that it flows in only one direction.

Drip (or trickle).—Water is applied slowly and under low pressure to the surface of the soil or into the soil through such applicators as emitters, porous tubing, or perforated pipe.

Furrow.—Water is applied in small ditches made by cultivation implements. Furrows are used for tree and row crops.

Sprinkler.—Water is sprayed over the soil surface through pipes or nozzles from a pressure system.

Subirrigation.—Water is applied in open ditches or tile lines until the water table is raised enough to wet the soil.

Wild flooding.—Water, released at high points, is allowed to flow onto an area without controlled distribution.

Island (map symbol). A small area of mineral soil within a body of water and above the normal water level. Each symbol represents one island or several closely grouped islands totaling less than 4 acres.

- Kame. A low mound, knob, hummock, or short irregular ridge composed of stratified sand and gravel deposited by a subglacial stream as a fan or delta at the margin of a melting glacier; by a supraglacial stream in a low place or hole on the surface of the glacier; or as a ponded deposit on the surface or at the margin of stagnant ice.
- **Karst** (topography). A kind of topography that formed in limestone, gypsum, or other soluble rocks by dissolution and that is characterized by closed depressions, sinkholes, caves, and underground drainage.
- **Knoll.** A small, low, rounded hill rising above adjacent landforms.
- **K**_{eat}. Saturated hydraulic conductivity. (See Permeability.)
- **Lacustrine deposit.** Material deposited in lake water and exposed when the water level is lowered or the elevation of the land is raised.
- **Lake plain.** A nearly level surface marking the floor of an extinct lake filled by well sorted, generally fine textured, stratified deposits, commonly containing varves.
- **Lake terrace.** A narrow shelf, partly cut and partly built, produced along a lakeshore in front of a scarp line of low cliffs and later exposed when the water level falls.
- Landslide. A general, encompassing term for most types of mass movement landforms and processes involving the downslope transport and outward deposition of soil and rock materials caused by gravitational forces; the movement may or may not involve saturated materials. The speed and distance of movement, as well as the amount of soil and rock material, vary greatly.
- **Large stones** (in tables). Rock fragments 3 inches (7.6 centimeters) or more across. Large stones adversely affect the specified use of the soil.
- **Leaching.** The removal of soluble material from soil or other material by percolating water.
- **Levees, single side slope (map symbol).** Embankments for confining or controlling water. Typically constructed along the banks of a river to prevent overflow onto lowlands
- Linear extensibility. Refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. Linear extensibility is used to determine the shrink-swell potential of soils. It is an expression of the volume change between the water content of the clod at ¹/₃- or ¹/₁₀-bar tension (33kPa or 10kPa tension) and oven dryness. Volume change is influenced by the amount and type of clay minerals in the soil. The volume change is the percent change for the whole soil. If it is expressed as a fraction, the resulting value is COLE, coefficient of linear extensibility.
- Liquid limit. The moisture content at which the soil passes from a plastic to a liquid state
- **Loam.** Soil material that is 7 to 27 percent clay particles, 28 to 50 percent silt particles, and less than 52 percent sand particles.
- **Loess.** Material transported and deposited by wind and consisting dominantly of silt-sized particles.
- **Low strength.** The soil is not strong enough to support loads.
- **Low-residue crops.** Such crops as corn used for silage, peas, beans, and potatoes. Residue from these crops is not adequate to control erosion until the next crop in the rotation is established. These crops return little organic matter to the soil.
- **Marl.** An earthy, unconsolidated deposit consisting chiefly of calcium carbonate mixed with clay in approximately equal proportions; formed primarily under freshwater lacustrine conditions but also formed in more saline environments.
- **Mass movement.** A generic term for the dislodgment and downslope transport of soil and rock material as a unit under direct gravitational stress.

Masses. See Redoximorphic features.

Mechanical treatment. Use of mechanical equipment for seeding, brush management, and other management practices.

Medium textured soil. Very fine sandy loam, loam, silt loam, or silt.

Metamorphic rock. Rock of any origin altered in mineralogical composition, chemical composition, or structure by heat, pressure, and movement at depth in the earth's crust. Nearly all such rocks are crystalline.

Mine spoil. An accumulation of displaced earthy material, rock, or other waste material removed during mining or excavation. Also called earthy fill.

Mineral soil. Soil that is mainly mineral material and low in organic material. Its bulk density is more than that of organic soil.

Minimum tillage. Only the tillage essential to crop production and prevention of soil damage.

Miscellaneous area. A kind of map unit that has little or no natural soil and supports little or no vegetation.

Moderately coarse textured soil. Coarse sandy loam, sandy loam, or fine sandy loam.

Moderately fine textured soil. Clay loam, sandy clay loam, or silty clay loam.

Mollic epipedon. A thick, dark, humus-rich surface horizon (or horizons) that has high base saturation and pedogenic soil structure. It may include the upper part of the subsoil.

Moraine. In terms of glacial geology, a mound, ridge, or other topographically distinct accumulation of unsorted, unstratified drift, predominantly till, deposited primarily by the direct action of glacial ice in a variety of landforms. Also, a general term for a landform composed mainly of till (except for kame moraines, which are composed mainly of stratified outwash) that has been deposited by a glacier. Some types of moraines are disintegration, end, ground, kame, lateral, recessional, and terminal.

Morphology, soil. The physical makeup of the soil, including the texture, structure, porosity, consistence, color, and other physical, mineral, and biological properties of the various horizons, and the thickness and arrangement of those horizons in the soil profile.

Mottling, soil. Irregular spots of different colors that vary in number and size.

Descriptive terms are as follows: abundance—few, common, and many; size—fine, medium, and coarse; and contrast—faint, distinct, and prominent. The size measurements are of the diameter along the greatest dimension. Fine indicates less than 5 millimeters (about 0.2 inch); medium, from 5 to 15 millimeters (about 0.2 to 0.6 inch); and coarse, more than 15 millimeters (about 0.6 inch).

Muck. Dark, finely divided, well decomposed organic soil material. (See Sapric soil material.)

Mudstone. A blocky or massive, fine grained sedimentary rock in which the proportions of clay and silt are approximately equal. Also, a general term for such material as clay, silt, claystone, siltstone, shale, and argillite and that should be used only when the amounts of clay and silt are not known or cannot be precisely identified.

Munsell notation. A designation of color by degrees of three simple variables—hue, value, and chroma. For example, a notation of 10YR 6/4 is a color with hue of 10YR, value of 6, and chroma of 4.

Neutral soil. A soil having a pH value of 6.6 to 7.3. (See Reaction, soil.) **Nodules.** See Redoximorphic features.

Nose slope (geomorphology). A geomorphic component of hills consisting of the projecting end (laterally convex area) of a hillside. The overland waterflow is

predominantly divergent. Nose slopes consist dominantly of colluvium and slopewash sediments (for example, slope alluvium).

Nutrient, plant. Any element taken in by a plant essential to its growth. Plant nutrients are mainly nitrogen, phosphorus, potassium, calcium, magnesium, sulfur, iron, manganese, copper, boron, and zinc obtained from the soil and carbon, hydrogen, and oxygen obtained from the air and water.

Organic matter. Plant and animal residue in the soil in various stages of decomposition. The content of organic matter in the surface layer is described as follows:

Very low	less than 0.5 percent
Low	0.5 to 1.0 percent
Moderately low	1.0 to 2.0 percent
Moderate	2.0 to 4.0 percent
High	4.0 to 8.0 percent
Very high	more than 8.0 percent

Outwash. Stratified and sorted sediments (chiefly sand and gravel) removed or "washed out" from a glacier by meltwater streams and deposited in front of or beyond the end moraine or the margin of a glacier. The coarser material is deposited nearer to the ice.

Outwash plain. An extensive lowland area of coarse textured glaciofluvial material. An outwash plain is commonly smooth; where pitted, it generally is low in relief.

Parent material. The unconsolidated organic and mineral material in which soil forms.

Peat. Unconsolidated material, largely undecomposed organic matter, that has accumulated under excess moisture. (See Fibric soil material.)

Ped. An individual natural soil aggregate, such as a granule, a prism, or a block.
Pedisediment. A layer of sediment, eroded from the shoulder and backslope of an erosional slope, that lies on and is being (or was) transported across a gently sloping erosional surface at the foot of a receding hill or mountain slope.

Pedon. The smallest volume that can be called "a soil." A pedon is three dimensional and large enough to permit study of all horizons. Its area ranges from about 10 to 100 square feet (1 square meter to 10 square meters), depending on the variability of the soil.

Percolation. The movement of water through the soil.

Perennial water (map symbol). A small, natural or constructed lake, pond, or pit that contains water most of the year. Each symbol represents one area of water or several closely grouped areas of water totaling less than 4 acres.

Permeability. The quality of the soil that enables water or air to move downward through the profile. The rate at which a saturated soil transmits water is accepted as a measure of this quality. In soil physics, the rate is referred to as "saturated hydraulic conductivity," which is defined in the "Soil Survey Manual." In line with conventional usage in the engineering profession and with traditional usage in published soil surveys, this rate of flow continues to be expressed as "permeability." Terms describing permeability, measured in inches per hour, are as follows:

Impermeable	less than 0.0015 inch
Very slow	0.0015 to 0.06 inch
Slow	0.06 to 0.2 inch
Moderately slow	0.2 to 0.6 inch
Moderate	0.6 inch to 2.0 inches
Moderately rapid	2.0 to 6.0 inches
Rapid	6.0 to 20 inches
Very rapid	more than 20 inches

pH value. A numerical designation of acidity and alkalinity in soil. (See Reaction, soil.) **Phase, soil.** A subdivision of a soil series based on features that affect its use and management, such as slope, stoniness, and flooding.

- **Piping** (in tables). Formation of subsurface tunnels or pipelike cavities by water moving through the soil.
- **Pitted outwash plain.** An outwash plain marked by many irregular depressions, such as kettles, shallow pits, and potholes, which formed by melting of incorporated ice masses; common in Wisconsin and Minnesota.
- **Pitting** (in tables). Pits caused by melting around ice. They form on the soil after plant cover is removed.
- Plastic limit. The moisture content at which a soil changes from semisolid to plastic.
- **Plasticity index.** The numerical difference between the liquid limit and the plastic limit; the range of moisture content within which the soil remains plastic.
- Plateau (geomorphology). A comparatively flat area of great extent and elevation; specifically, an extensive land region that is considerably elevated (more than 100 meters) above the adjacent lower lying terrain, is commonly limited on at least one side by an abrupt descent, and has a flat or nearly level surface. A comparatively large part of a plateau surface is near summit level.
- **Plowpan.** A compacted layer formed in the soil directly below the plowed layer. **Poletimber.** Hardwood trees ranging from 5 to 11 inches in diameter and conifers ranging from 5 to 9 inches in diameter at breast height.
- **Ponding.** Standing water on soils in closed depressions. Unless the soils are artificially drained, the water can be removed only by percolation or evapotranspiration.
- **Poorly graded.** Refers to a coarse grained soil or soil material consisting mainly of particles of nearly the same size. Because there is little difference in size of the particles, density can be increased only slightly by compaction.
- **Pore linings.** See Redoximorphic features.
- Potential native plant community. See Climax plant community.
- **Potential rooting depth (effective rooting depth).** Depth to which roots could penetrate if the content of moisture in the soil were adequate. The soil has no properties restricting the penetration of roots to this depth.
- **Prescribed burning.** Deliberately burning an area for specific management purposes, under the appropriate conditions of weather and soil moisture and at the proper time of day.
- **Productivity, soil.** The capability of a soil for producing a specified plant or sequence of plants under specific management.
- **Profile, soil.** A vertical section of the soil extending through all its horizons and into the parent material.
- **Proper grazing use.** Grazing at an intensity that maintains enough cover to protect the soil and maintain or improve the quantity and quality of the desirable vegetation. This practice increases the vigor and reproduction capacity of the key plants and promotes the accumulation of litter and mulch necessary to conserve soil and water.
- **Rangeland.** Land on which the potential natural vegetation is predominantly grasses, grasslike plants, forbs, or shrubs suitable for grazing or browsing. It includes natural grasslands, savannas, many wetlands, some deserts, tundras, and areas that support certain forb and shrub communities.
- **Reaction**, **soil**. A measure of acidity or alkalinity of a soil, expressed as pH values. A soil that tests to pH 7.0 is described as precisely neutral in reaction because it is

neither acid nor alkaline. The degrees of acidity or alkalinity, expressed as pH values, are:

Ultra acid	less than 3.5
Extremely acid	3.5 to 4.4
Very strongly acid	4.5 to 5.0
Strongly acid	5.1 to 5.5
Moderately acid	5.6 to 6.0
Slightly acid	6.1 to 6.5
Neutral	6.6 to 7.3
Slightly alkaline	7.4 to 7.8
Moderately alkaline	7.9 to 8.4
Strongly alkaline	8.5 to 9.0
Very strongly alkaline	9.1 and higher

Redoximorphic concentrations. See Redoximorphic features. **Redoximorphic depletions.** See Redoximorphic features.

Redoximorphic features. Redoximorphic features are associated with wetness and result from alternating periods of reduction and oxidation of iron and manganese compounds in the soil. Reduction occurs during saturation with water, and oxidation occurs when the soil is not saturated. Characteristic color patterns are created by these processes. The reduced iron and manganese ions may be removed from a soil if vertical or lateral fluxes of water occur, in which case there is no iron or manganese precipitation in that soil. Wherever the iron and manganese are oxidized and precipitated, they form either soft masses or hard concretions or nodules. Movement of iron and manganese as a result of redoximorphic processes in a soil may result in redoximorphic features that are defined as follows:

- 1. Redoximorphic concentrations.—These are zones of apparent accumulation of iron-manganese oxides, including:
 - A. Nodules and concretions, which are cemented bodies that can be removed from the soil intact. Concretions are distinguished from nodules on the basis of internal organization. A concretion typically has concentric layers that are visible to the naked eye. Nodules do not have visible organized internal structure; and
 - B. Masses, which are noncemented concentrations of substances within the soil matrix; *and*
 - C. Pore linings, i.e., zones of accumulation along pores that may be either coatings on pore surfaces or impregnations from the matrix adjacent to the pores.
- 2. Redoximorphic depletions.—These are zones of low chroma (chromas less than those in the matrix) where either iron-manganese oxides alone or both iron-manganese oxides and clay have been stripped out, including:
 - A. Iron depletions, i.e., zones that contain low amounts of iron and manganese oxides but have a clay content similar to that of the adjacent matrix; and
 - B. Clay depletions, i.e., zones that contain low amounts of iron, manganese, and clay (often referred to as silt coatings or skeletans).
- 3. Reduced matrix.—This is a soil matrix that has low chroma *in situ* but undergoes a change in hue or chroma within 30 minutes after the soil material has been exposed to air.

- Reduced matrix. See Redoximorphic features.
- **Regolith.** All unconsolidated earth materials above the solid bedrock. It includes material weathered in place from all kinds of bedrock and alluvial, glacial, eolian, lacustrine, and pyroclastic deposits.
- **Relief.** The relative difference in elevation between the upland summits and the lowlands or valleys of a given region.
- **Residuum (residual soil material).** Unconsolidated, weathered or partly weathered mineral material that accumulated as bedrock disintegrated in place.
- **Rill.** A very small, steep-sided channel resulting from erosion and cut in unconsolidated materials by concentrated but intermittent flow of water. A rill generally is not an obstacle to wheeled vehicles and is shallow enough to be smoothed over by ordinary tillage.
- **Riser.** The vertical or steep side slope (e.g., escarpment) of terraces, flood-plain steps, or other stepped landforms; commonly a recurring part of a series of natural, steplike landforms, such as successive stream terraces.
- **Road cut.** A sloping surface produced by mechanical means during road construction. It is commonly on the uphill side of the road.
- **Rock fragments.** Rock or mineral fragments having a diameter of 2 millimeters or more; for example, pebbles, cobbles, stones, and boulders.
- **Rock outcrop (map symbol).** An exposure of bedrock at the surface of the earth. Not used where the named soils of the surrounding map unit are shallow over bedrock. Each symbol represents one exposure or several closely grouped exposures totaling less than 4 acres.
- **Root zone.** The part of the soil that can be penetrated by plant roots.
- **Runoff.** The precipitation discharged into stream channels from an area. The water that flows off the surface of the land without sinking into the soil is called surface runoff. Water that enters the soil before reaching surface streams is called groundwater runoff or seepage flow from ground water.
- **Saline soil.** A soil containing soluble salts in an amount that impairs growth of plants. A saline soil does not contain excess exchangeable sodium.
- **Sand.** As a soil separate, individual rock or mineral fragments from 0.05 millimeter to 2.0 millimeters in diameter. Most sand grains consist of quartz. As a soil textural class, a soil that is 85 percent or more sand and not more than 10 percent clay.
- Sandstone. Sedimentary rock containing dominantly sand-sized particles.
- **Sandy spot (map symbol).** An area where the surface layer is loamy fine sand or coarser within an area where the surface layer of the named soils in the surrounding map unit is very fine sandy loam or finer. Typically less than 4 acres.
- **Sanitary landfill (map symbol).** A small area of accumulated waste products of human habitation. The area can be above or below natural ground level. Typically less than 4 acres.
- **Sapling.** A tree ranging from 1 to 5 inches in diameter at breast height.
- **Sapric soil material (muck).** The most highly decomposed of all organic soil material. Muck has the least amount of plant fiber, the highest bulk density, and the lowest water content at saturation of all organic soil material.
- **Saturated hydraulic conductivity (K**_{sat}). See Permeability.
- **Saturation.** Wetness characterized by zero or positive pressure of the soil water. Under conditions of saturation, the water will flow from the soil matrix into an unlined auger hole.
- **Sawtimber.** Hardwood trees more than 11 inches in diameter and conifers more than 9 inches in diameter at breast height.
- **Scarification.** The act of abrading, scratching, loosening, crushing, or modifying the surface to increase water absorption or to provide a more tillable soil.
- **Sedimentary rock.** A consolidated deposit of clastic particles, chemical precipitates, or organic remains accumulated at or near the surface of the earth under normal

- low temperature and pressure conditions. Sedimentary rocks include consolidated equivalents of alluvium, colluvium, drift, and eolian, lacustrine, and marine deposits. Examples are sandstone, siltstone, mudstone, claystone, shale, conglomerate, limestone, dolomite, and coal.
- **Seedling.** A tree less than 1 inch in diameter at breast height.
- **Sequum.** A sequence consisting of an illuvial horizon and the overlying eluvial horizon. (See Eluviation.)
- **Series, soil.** A group of soils that have profiles that are almost alike, except for differences in texture of the surface layer. All the soils of a series have horizons that are similar in composition, thickness, and arrangement.
- **Shale.** Sedimentary rock that formed by the hardening of a deposit of clay, silty clay, or silty clay loam and that has a tendency to split into thin layers.
- **Sheet erosion.** The removal of a fairly uniform layer of soil material from the land surface by the action of rainfall and surface runoff.
- **Short**, **steep slope** (map symbol). A narrow area of soil that is at least two slope classes steeper than the surrounding map unit.
- **Shoulder.** The convex, erosional surface near the top of a hillslope. A shoulder is a transition from summit to backslope.
- **Shrink-swell** (in tables). The shrinking of soil when dry and the swelling when wet. Shrinking and swelling can damage roads, dams, building foundations, and other structures. It can also damage plant roots.
- **Side slope** (geomorphology). A geomorphic component of hills consisting of a laterally planar area of a hillside. The overland waterflow is predominantly parallel. Side slopes are dominantly colluvium and slope-wash sediments.
- Silica. A combination of silicon and oxygen. The mineral form is called quartz.
- **Silt.** As a soil separate, individual mineral particles that range in diameter from the upper limit of clay (0.002 millimeter) to the lower limit of very fine sand (0.05 millimeter). As a soil textural class, soil that is 80 percent or more silt and less than 12 percent clay.
- **Siltstone.** An indurated silt having the texture and composition of shale but lacking its fine lamination or fissility; a massive mudstone in which silt predominates over clay.
- **Similar soils.** Soils that share limits of diagnostic criteria, behave and perform in a similar manner, and have similar conservation needs or management requirements for the major land uses in the survey area.
- **Sinkhole.** A closed, circular or elliptical depression, commonly funnel shaped, characterized by subsurface drainage and formed either by dissolution of the surface of underlying bedrock (e.g., limestone, gypsum, or salt) or by collapse of underlying caves within bedrock. Complexes of sinkholes in carbonate-rock terrain are the main components of karst topography.
- **Site index.** A designation of the quality of a forest site based on the height of the dominant stand at an arbitrarily chosen age. For example, if the average height attained by dominant and codominant trees in a fully stocked stand at the age of 50 years is 75 feet, the site index is 75.
- **Slope.** The inclination of the land surface from the horizontal. Percentage of slope is the vertical distance divided by horizontal distance, then multiplied by 100. Thus, a slope of 20 percent is a drop of 20 feet in 100 feet of horizontal distance.
- **Slope alluvium.** Sediment gradually transported down the slopes of mountains or hills primarily by nonchannel alluvial processes (i.e., slope-wash processes) and characterized by particle sorting. Lateral particle sorting is evident on long slopes. In a profile sequence, sediments may be distinguished by differences in size and/or specific gravity of rock fragments and may be separated by stone lines.

- Burnished peds and sorting of rounded or subrounded pebbles or cobbles distinguish these materials from unsorted colluvial deposits.
- **Slow refill** (in tables). The slow filling of ponds, resulting from restricted permeability in the soil.
- **Soft bedrock.** Bedrock that can be excavated with trenching machines, backhoes, small rippers, and other equipment commonly used in construction.
- **Soil.** A natural, three-dimensional body at the earth's surface. It is capable of supporting plants and has properties resulting from the integrated effect of climate and living matter acting on earthy parent material, as conditioned by relief and by the passage of time.
- **Soil separates.** Mineral particles less than 2 millimeters in equivalent diameter and ranging between specified size limits. The names and sizes, in millimeters, of separates recognized in the United States are as follows:

Very coarse sand	2.0 to 1.0
Coarse sand	1.0 to 0.5
Medium sand	0.5 to 0.25
Fine sand	0.25 to 0.10
Very fine sand	0.10 to 0.05
Silt	0.05 to 0.002
Clav	less than 0.002

- **Solum.** The upper part of a soil profile, above the C horizon, in which the processes of soil formation are active. The solum in soil consists of the A, E, and B horizons. Generally, the characteristics of the material in these horizons are unlike those of the material below the solum. The living roots and plant and animal activities are largely confined to the solum.
- Stone line. In a vertical cross section, a line formed by scattered fragments or a discrete layer of angular and subangular rock fragments (commonly a gravel- or cobble-sized lag concentration) that formerly was draped across a topographic surface and was later buried by additional sediments. A stone line generally caps material that was subject to weathering, soil formation, and erosion before burial. Many stone lines seem to be buried erosion pavements, originally formed by sheet and rill erosion across the land surface.
- **Stones.** Rock fragments 10 to 24 inches (25 to 60 centimeters) in diameter if rounded or 15 to 24 inches (38 to 60 centimeters) in length if flat.
- **Stony.** Refers to a soil containing stones in numbers that interfere with or prevent tillage.
- **Strath terrace.** A type of stream terrace; formed as an erosional surface cut on bedrock and thinly mantled with stream deposits (alluvium).
- **Stream terrace.** One of a series of platforms in a stream valley, flanking and more or less parallel to the stream channel, originally formed near the level of the stream; represents the remnants of an abandoned flood plain, stream bed, or valley floor produced during a former state of fluvial erosion or deposition.
- **Stripcropping.** Growing crops in a systematic arrangement of strips or bands that provide vegetative barriers to wind erosion and water erosion.
- Structure, soil. The arrangement of primary soil particles into compound particles or aggregates. The principal forms of soil structure are—platy (laminated), prismatic (vertical axis of aggregates longer than horizontal), columnar (prisms with rounded tops), blocky (angular or subangular), and granular. Structureless soils are either single grained (each grain by itself, as in dune sand) or massive (the particles adhering without any regular cleavage, as in many hardpans).
- **Stubble mulch.** Stubble or other crop residue left on the soil or partly worked into the soil. It protects the soil from wind erosion and water erosion after harvest, during

- preparation of a seedbed for the next crop, and during the early growing period of the new crop.
- **Subsoil.** Technically, the B horizon; roughly, the part of the solum below plow depth. **Subsoiling.** Tilling a soil below normal plow depth, ordinarily to shatter a hardpan or claypan.
- **Substratum.** The part of the soil below the solum.
- Subsurface layer. Any surface soil horizon (A, E, AB, or EB) below the surface layer.
- **Summit.** The topographically highest position of a hillslope. It has a nearly level (planar or only slightly convex) surface.
- **Surface layer.** The soil ordinarily moved in tillage, or its equivalent in uncultivated soil, ranging in depth from 4 to 10 inches (10 to 25 centimeters). Frequently designated as the "plow layer," or the "Ap horizon."
- **Surface soil.** The A, E, AB, and EB horizons, considered collectively. It includes all subdivisions of these horizons.
- **Swale.** A slight depression in the midst of generally level land. A shallow depression in an undulating ground moraine caused by uneven glacial deposition.
- **Terminal moraine.** An end moraine that marks the farthest advance of a glacier. It typically has the form of a massive arcuate or concentric ridge, or complex of ridges, and is underlain by till and other types of drift.
- **Terrace** (conservation). An embankment, or ridge, constructed across sloping soils on the contour or at a slight angle to the contour. The terrace intercepts surface runoff so that water soaks into the soil or flows slowly to a prepared outlet. A terrace in a field generally is built so that the field can be farmed. A terrace intended mainly for drainage has a deep channel that is maintained in permanent sod.
- **Terrace** (geomorphology). A steplike surface, bordering a valley floor or shoreline, that represents the former position of a flood plain, lake, or seashore. The term is usually applied both to the relatively flat summit surface (tread) that was cut or built by stream or wave action and to the steeper descending slope (scarp or riser) that has graded to a lower base level of erosion.
- **Terracettes.** Small, irregular steplike forms on steep hillslopes, especially in pasture, formed by creep or erosion of surficial materials that may be induced or enhanced by trampling of livestock, such as sheep or cattle.
- **Texture, soil.** The relative proportions of sand, silt, and clay particles in a mass of soil. The basic textural classes, in order of increasing proportion of fine particles, are sand, loamy sand, sandy loam, loam, silt loam, silt, sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay, and clay. The sand, loamy sand, and sandy loam classes may be further divided by specifying "coarse," "fine," or "very fine."
- **Thin layer** (in tables). Otherwise suitable soil material that is too thin for the specified use.
- **Till.** Dominantly unsorted and nonstratified drift, generally unconsolidated and deposited directly by a glacier without subsequent reworking by meltwater, and consisting of a heterogeneous mixture of clay, silt, sand, gravel, stones, and boulders; rock fragments of various lithologies are embedded within a finer matrix that can range from clay to sandy loam.
- **Till plain.** An extensive area of level to gently undulating soils underlain predominantly by till and bounded at the distal end by subordinate recessional or end moraines.
- **Tilth, soil.** The physical condition of the soil as related to tillage, seedbed preparation, seedling emergence, and root penetration.
- **Toeslope.** The gently inclined surface at the base of a hillslope. Toeslopes in profile are commonly gentle and linear and are constructional surfaces forming the lower part of a hillslope continuum that grades to valley or closed-depression floors.
- **Topsoil.** The upper part of the soil, which is the most favorable material for plant growth. It is ordinarily rich in organic matter and is used to topdress roadbanks, lawns, and land affected by mining.

- **Trace elements.** Chemical elements, for example, zinc, cobalt, manganese, copper, and iron, in soils in extremely small amounts. They are essential to plant growth.
- **Tread.** The flat to gently sloping, topmost, laterally extensive slope of terraces, floodplain steps, or other stepped landforms; commonly a recurring part of a series of natural steplike landforms, such as successive stream terraces.
- **Upland.** An informal, general term for the higher ground of a region, in contrast with a low-lying adjacent area, such as a valley or plain, or for land at a higher elevation than the flood plain or low stream terrace; land above the footslope zone of the hillslope continuum.
- **Valley fill.** The unconsolidated sediment deposited by any agent (water, wind, ice, or mass wasting) so as to fill or partly fill a valley.
- **Variegation.** Refers to patterns of contrasting colors assumed to be inherited from the parent material rather than to be the result of poor drainage.
- **Varve.** A sedimentary layer or a lamina or sequence of laminae deposited in a body of still water within a year. Specifically, a thin pair of graded glaciolacustrine layers seasonally deposited, usually by meltwater streams, in a glacial lake or other body of still water in front of a glacier.
- **Very stony spot (map symbol).** An area in which 0.1 to 3.0 percent of the surface is covered by rock fragments more than 10 inches in diameter within an area that does not have rock fragments on the surface. Typically less than 4 acres.
- **Water bars.** Smooth, shallow ditches or depressional areas that are excavated at an angle across a sloping road. They are used to reduce the downward velocity of water and divert it off and away from the road surface. Water bars can easily be driven over if constructed properly.
- **Weathering.** All physical disintegration, chemical decomposition, and biologically induced changes in rocks or other deposits at or near the earth's surface by atmospheric or biologic agents or by circulating surface waters but involving essentially no transport of the altered material.
- **Well graded.** Refers to soil material consisting of coarse grained particles that are well distributed over a wide range in size or diameter. Such soil normally can be easily increased in density and bearing properties by compaction. Contrasts with poorly graded soil.
- **Wet spot (map symbol).** An area of somewhat poorly drained to very poorly drained soil at least two drainage classes wetter than the named soils in the surrounding map unit. Each symbol represents one wet area or several grouped wet areas totaling less than 4 acres.
- **Wilting point (or permanent wilting point).** The moisture content of soil, on an ovendry basis, at which a plant (specifically a sunflower) wilts so much that it does not recover when placed in a humid, dark chamber.
- Windthrow. The uprooting and tipping over of trees by the wind.

Where To Get Updated Information

The soil properties and interpretations included in this survey were current as of October 2005. More current information may be available from the Natural Resources Conservation Service (NRCS) Field Office Technical Guide at Spooner, Wisconsin, or online at www.nrcs.usda.gov/technical/efotg. The data in the Field Office Technical Guide are updated periodically.

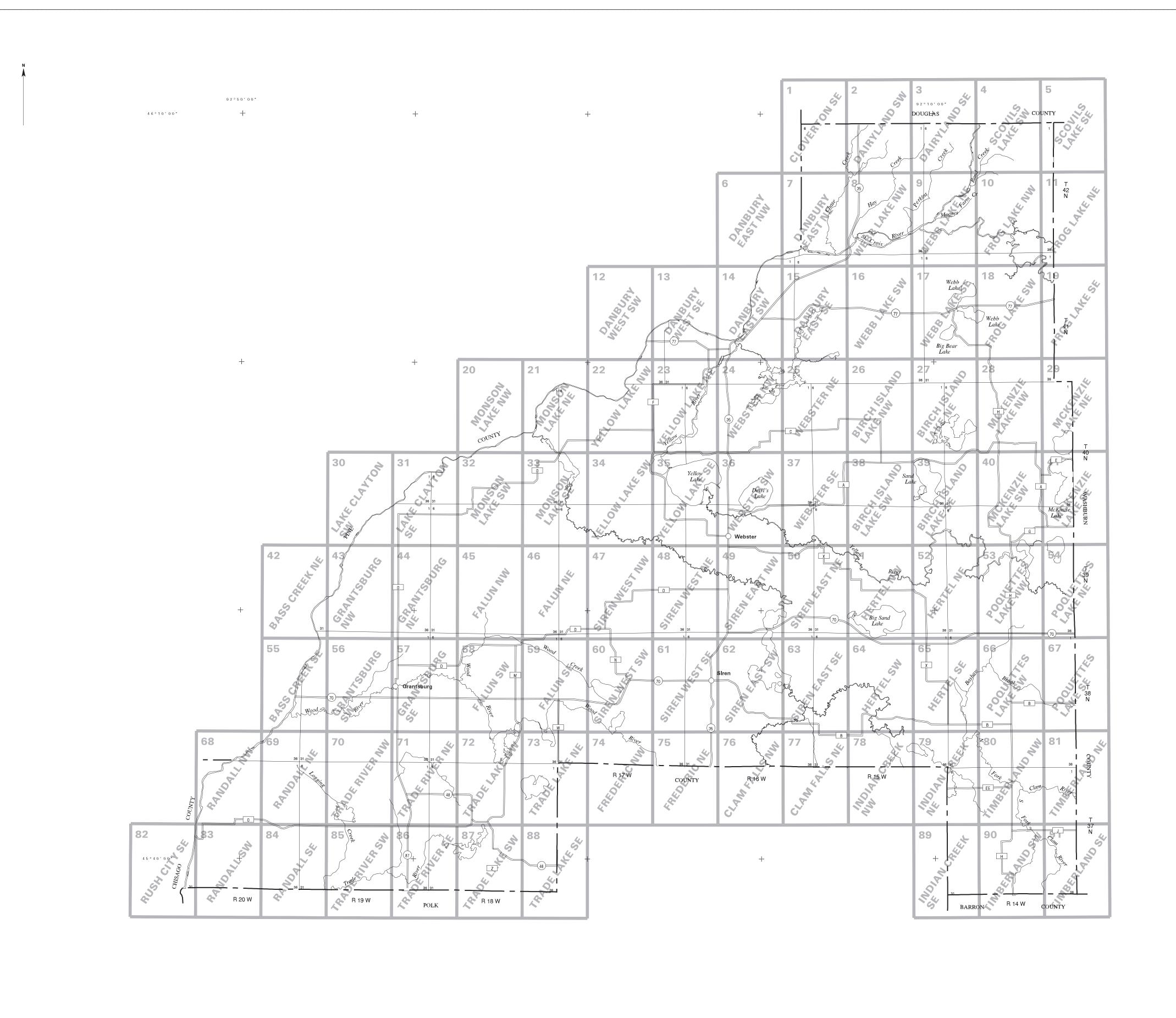
More current information may also be available through the NRCS Soil Data Mart Web site at http://soildatamart.nrcs.usda.gov or the Web Soil Survey at http://websoilsurvey.nrcs.usda.gov/app.

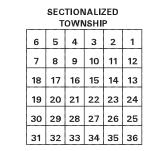
Additional information about soils and about NRCS is available through the Wisconsin NRCS Web page at www.wi.nrcs.usda.gov.

For further information, please contact:

USDA, Natural Resources Conservation Service Spooner Service Center 800 North Front Street Spooner, WI 54801-1350

Phone: 715-635-8228





193A Minocqua muck, 0 to 2 percent slopes 337A Plover fine sandy loam, 0 to 3 percent slopes

368B Mahtomedi-Cress complex, 2 to 6 percent slopes 368C Mahtomedi-Cress complex, 6 to 12 percent slopes

368D Mahtomedi-Cress complex, 12 to 25 percent slopes 368E Mahtomedi-Cress complex, 25 to 35 percent slopes

380B Cress-Rosholt complex, 2 to 6 percent slopes 380C Cress-Rosholt complex, 6 to 12 percent slopes

380D Cress-Rosholt complex, 12 to 25 percent slopes

383B Mahtomedi loamy sand, 0 to 6 percent slopes
383C Mahtomedi loamy sand, 6 to 12 percent slopes

BOUNDARIES

SOIL DELINEATIONS AND SYMBOLS 3A 64A

SOIL LEGEND

557B Shawano fine sand, 0 to 6 percent slopes
557C Shawano fine sand, 6 to 12 percent slopes

557D Shawano fine sand, 12 to 30 percent slopes 586A Chelmo sandy loam, 0 to 2 percent slopes

615C Cress sandy loam, 6 to 12 percent slopes 615D Cress sandy loam, 12 to 30 percent slopes

553D Branstad fine sandy loam, 12 to 20 percent slopes 555A Fordum silt loam, 0 to 2 percent slopes, frequently flooded

600A Haplosaprists and Psammaquents, 0 to 2 percent slopes 615B Cress sandy loam, 0 to 6 percent slopes

CONVENTIONAL AND SPECIAL SYMBOLS LEGEND

Map symbols consist mostly of numbers or a combination of numbers and letters. The initial numbers represent the kind of soil in a consociation or a combination of soils in a complex or undifferentiated group. An uppercase letter following these numbers indicates the class of slope.

CULTURAL FEATURES HYDROGRAPHIC FEATURES SOIL SURVEY FEATURES

STREAMS

SYMBO	DL NAME	SYMBOL	NAME	SYMBOL	NAME	National, state, or province					
	Totagatic-Bowstring-Ausable complex, 0 to 2 percent slopes, frequently flooded Makwa stony muck, 0 to 1 percent slopes, extremely stony, frequently flooded				strup-Rock outcrop complex, 2 to 12 percent slopes, very stony	County or parish		Perennial, double line		Bedrock escarpment	THEFTETERISTETERISTETER
22A	Comstock silt loam, 0 to 3 percent slopes Scott Lake sandy loam, 0 to 3 percent slopes	396B F	Rockmarsh-Dairyland-Makwa, seeped, complex, 2 to 20 percent slopes, very ste Friendship-Wurtsmith-Grayling complex, 0 to 6 percent slopes Perchlake loamy fine sand, 0 to 2 percent slopes	623A Capitola muck,	, 0 to 2 percent slopes, very stony	Reservation (national or state forest or		Perennial, single line	Label only	Clay spot	*
28B	Haugen-Rosholt complex, 2 to 6 percent slopes, very stony		Grayling sand, 0 to 6 percent slopes		am, 0 to 3 percent slopes to 1 percent slopes, very stony	park)			•		
	Haugen-Rosholt complex, 6 to 12 percent slopes, very stony Rosholt sandy loam, 0 to 2 percent slopes		Grayling sand, 6 to 12 percent slopes Grayling sand, 12 to 30 percent slopes		dy loam, 0 to 2 percent slopes			Intermittent stream	Label only	Depression, closed	•
38B	Rosholt sandy loam, 2 to 6 percent slopes		Loxley mucky peat, 0 to 1 percent slopes		dy loam, 2 to 6 percent slopes dy loam, 6 to 12 percent slopes	Map sheet neatline		Drainage end	Label only	Gravel pit	X
	Rosholt sandy loam, 6 to 12 percent slopes Rosholt sandy loam, 12 to 20 percent slopes		Seelyeville and Markey soils, 0 to 1 percent slopes Seelyeville and Cathro soils, 0 to 1 percent slopes		artree complex, 0 to 12 percent slopes, rocky	Quadrangle matchline (shown in white)		Ü	,		•
	Amery sandy loam, 12 to 25 percent slopes, very stony		Seelyeville, Cathro, and Markey soils, 0 to 1 percent slopes		artree complex, 0 to 12 percent slopes, rocky, rarely flooded am, 1 to 6 percent slopes	Quadrangle materime (shown in write)				Gravelly spot	• •
	Antigo silt loam, 1 to 6 percent slopes		Dora, Markey, and Seelyeville soils, 0 to 1 percent slopes	669D Fremstadt, stor	ony-Pomroy complex, 15 to 30 percent slopes	Land grant boundary (shown in white)				Landfill	
	Antigo silt loam, 6 to 15 percent slopes Crystal Lake silt loam, 0 to 2 percent slopes		Seelyeville, Cathro, and Rondeau soils, 0 to 1 percent slopes Emmert-Mahtomedi-Menahga complex, 2 to 6 percent slopes		tony-Spoonerhill complex, 2 to 6 percent slopes	Land grant boundary (shown in write)				Earlain	₩
	Crystal Lake silt loam, 2 to 6 percent slopes		Emmert-Mahtomedi-Menahga complex, 6 to 12 percent slopes		tagatic complex, 0 to 2 percent slopes, frequently flooded , 0 to 3 percent slopes, very stony	Dublic land common contact acceptant				Levee	* * * * * * * * * * *
	Crystal Lake silt loam, 6 to 12 percent slopes		Emmert-Mahtomedi-Menahga complex, 12 to 30 percent slopes	717B Milaca silt loam	m, 3 to 6 percent slopes, very stony	Public land survey system section boundary (shown in white)				Perennial water	
	Totagatic-Winterfield complex, 0 to 2 percent slopes, frequently flooded Keweenaw-Sayner-Vilas complex, 6 to 15 percent slopes, stony		Freya loamy fine sand, 0 to 3 percent slopes Graycalm-Menahga complex, 0 to 6 percent slopes		m, 6 to 12 percent slopes, very stony deen-Rock outcrop complex, 12 to 65 percent slopes, very stony	,				Bard automa	•
69E	Keweenaw-Sayner-Vilas complex, 15 to 45 percent slopes, stony		Graycalm-Menanga complex, 6 to 12 percent slopes		loamy sand, 0 to 6 percent slopes	ROAD EMBLEMS AND DESIGNATIONS	~~~			Rock outcrop	V
	Cutaway-Branstad complex, 1 to 6 percent slopes Cutaway-Branstad complex, 6 to 12 percent slopes		Graycalm-Menahga complex, 12 to 30 percent slopes		loam, 2 to 6 percent slopes, very stony	Interstate	173 79 345			Sandy spot	::
	Smestad loamy fine sand, 0 to 3 percent slopes		Haugen, very stony-Greenwood complex, 0 to 15 percent slopes Amery, very stony-Greenwood complex, 0 to 35 percent slopes		loam, 6 to 12 percent slopes, very stony loam, 12 to 20 percent slopes, very stony		~~~			Short steep slope	
	Taylor loam, 2 to 6 percent slopes	459A L	Loxley, Daisybay, and Dawson soils, 0 to 1 percent slopes		sionally flooded-Fordum, frequently flooded, complex, 0 to 3 perce	nt slopes Federal	287			Very sterny anet	00
	Taylor loam, 6 to 12 percent slopes Indus-Alango complex, 0 to 2 percent slopes		Bowstring muck, 0 to 1 percent slopes, frequently flooded Newson-Meehan complex, 0 to 3 percent slopes		sand, 0 to 3 percent slopes					Very stony spot	
	Wildwood muck, 0 to 1 percent slopes		Newson-Meenan complex, 0 to 3 percent slopes Bigisland-Milaca complex, 15 to 45 percent slopes, very stony	812B Mora sandy loa 825A Meehan sand,	nam, 0 to 4 percent slopes, very stony	State	(52) (52) 347)			Wet spot	Ψ
	Karlsborg sand, 1 to 6 percent slopes	471B	Dairyland-Emmert complex, 0 to 6 percent slopes, very stony		id, 0 to 3 percent slopes		0			ADHOCFEATURES	
	Karlsborg sand, 6 to 12 percent slopes Karlsborg sand, 12 to 20 percent slopes		Dairyland-Emmert complex, 6 to 15 percent slopes, very stony	980A Soderbeck very	ry gravelly loam, 0 to 2 percent slopes, very stony, rarely flooded	County, farm or ranch	1283			Cut or fill	Ħ
	Menahga sand, 0 to 6 percent slopes	472A F	Rockmarsh-Clemens complex, 0 to 2 percent slopes, very stony, frequently floor Dairyland-Skog complex, 0 to 3 percent slopes, very stony, rarely flooded		ony-Cress complex, 6 to 15 percent slopes						**
	Menahga sand, 6 to 12 percent slopes		Greenwood and Beseman soils, 0 to 1 percent slopes	1080B Spoonerhill-Spo	poonerhill, stony-Cress complex, 1 to 6 percent slopes					Dry Spot	※
	Menahga sand, 12 to 30 percent slopes Kost fine sand, 0 to 6 percent slopes		Lupton and Tawas soils, seeped, 2 to 15 percent slopes Karlsborg-Grettum-Perida complex, 1 to 6 percent slopes	2002 Udorthents, ear 2015 Pits	arthen dams					Island	8
	Amery-Rosholt complex, 12 to 20 percent slopes, very stony		Karlsborg-Grettum-Perida complex, 1 to 6 percent slopes	2015 Pits 2050 Landfill						iolaria .	
	Amery-Rosholt complex, 20 to 45 percent slopes, very stony		Karlsborg-Grettum-Perida complex, 12 to 30 percent slopes		oam, 0 to 2 percent slopes						
	Bluffton loam, 0 to 2 percent slopes Alstad loam, 0 to 3 percent slopes		Karlsborg loamy sand, 1 to 6 percent slopes Karlsborg loamy sand, 6 to 12 percent slopes		ano complex, 12 to 35 percent slopes ents, and Aquepts, 0 to 1 percent slopes, ponded, flooded						
	Cushing fine sandy loam, 20 to 35 percent slopes		Karlsborg loamy sand, 12 to 30 percent slopes		y sand, 0 to 2 percent slopes						
	Magnor, very stony-Magnor complex, 0 to 4 percent slopes		Meenon loamy sand, 0 to 3 percent slopes		my sand, 0 to 3 percent slopes						
	Freeon, very stony-Freeon complex, 2 to 6 percent slopes Freeon, very stony-Freeon complex, 6 to 12 percent slopes		Dody muck, 0 to 2 percent slopes Nokasippi muck, 0 to 1 percent slopes		very stony-Glendenning complex, 0 to 4 percent slopes sandy loam, 0 to 2 percent slopes						
160A	Oesterle sandy loam, 0 to 2 percent slopes		Perida sand, 0 to 4 percent slopes		nan, and Dawson soils, 0 to 1 percent slopes						
	Elderon sandy loam, 2 to 6 percent slopes		Stengel loamy sand, 0 to 3 percent slopes		e sand, 0 to 6 percent slopes						
	Tradelake-Taylor complex, 1 to 6 percent slopes Tradelake-Taylor complex, 6 to 12 percent slopes		Haugen, very stony-Haugen complex, 2 to 6 percent slopes Haugen, very stony-Haugen complex, 6 to 12 percent slopes		e sand, 6 to 12 percent slopes , 0 to 2 percent slopes						
185D	Tradelake-Taylor complex, 12 to 25 percent slopes		Menahga and Mahtomedi soils, 30 to 45 percent slopes		y sand, 0 to 6 percent slopes						
	Tradelake-Taylor complex, 25 to 35 percent slopes		Branstad fine sandy loam, 2 to 6 percent slopes	3448C Grettum loamy	y sand, 6 to 12 percent slopes						
	Siren loam, 0 to 3 percent slopes Minocqua muck, 0 to 2 percent slopes		Branstad fine sandy loam, 6 to 12 percent slopes		stadt-Fremstadt, stony, complex, 1 to 6 percent slopes						

3510B Pomroy-Fremstadt-Fremstadt, stony, complex, 1 to 6 percent slopes 3510C Pomroy-Fremstadt-Fremstadt, stony, complex, 6 to 15 percent slopes

3511A Bushville loamy sand, 0 to 3 percent slopes 3516A Slimlake sandy loam, 0 to 3 percent slopes

3625A Lino loamy fine sand, 0 to 2 percent slopes 3626A Crex loamy fine sand, 0 to 3 percent slopes

3629B Perida loamy sand, 0 to 4 percent slopes 3636B Plainbo sand, 2 to 6 percent slopes

3636C Plainbo sand, 6 to 12 percent slopes M-W Miscellaneous water

W Water

UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
92°18'45"
53.000m E BURNETT COUNTY, WISCONSIN CLOVERTON SE QUADRANGLE SHEET NUMBER 1 OF 91 92°15'00" 46°11′15″ 92°15′00″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 CLOVERTON SE, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 1 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION 0.5 KILOMETERS

UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
92°15′00″

558°00m E BURNETT COUNTY, WISCONSIN DAIRYLAND SW QUADRANGLE SHEET NUMBER 2 OF 91 92°11′15″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 DAIRYLAND SW, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 2 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION 0.5 KILOMETERS

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UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
92°11′15″ BURNETT COUNTY, WISCONSIN DAIRYLAND SE QUADRANGLE SHEET NUMBER 3 OF 91 92° 07'30" This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 DAIRYLAND SE, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 3 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION 0.5 KILOMETERS

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UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
92° 03' 45" BURNETT COUNTY, WISCONSIN SCOVILS LAKE SE QUADRANGLE SHEET NUMBER 5 OF 91 92°00′00″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 SCOVILS LAKE SE, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 5 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. 0.5 QUARTER QUADRANGLE LOCATION KILOMETERS

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UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
92° 30′00″ BURNETT COUNTY, WISCONSIN DANBURY WEST SW QUADRANGLE SHEET NUMBER 12 OF 91 92°26′15″ 46° 03′ 45″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 DANBURY WEST SW, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 12 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION 0.5 KILOMETERS

BURNETT COUNTY, WISCONSIN DANBURY EAST SW QUADRANGLE SHEET NUMBER 14 OF 91 UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE Joins sheet 6, Danbury East NW 92° 22′30″ 46° 03′ 45″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 DANBURY EAST SW, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 14 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION 0.5 KILOMETERS

UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE BURNETT COUNTY, WISCONSIN WEBB LAKE SW QUADRANGLE SHEET NUMBER 16 OF 91 Joins sheet 8, Webb Lake NW 92°15′00″ 558000m E R. 15 W. Twentysix Lake 92°15′00″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 WEBB LAKE SW, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 16 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. 0.5 QUARTER QUADRANGLE LOCATION KILOMETERS

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BURNETT COUNTY, WISCONSIN FROG LAKE SE QUADRANGLE SHEET NUMBER 19 OF 91 92° 00'00" UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE Joins sheet 11, Frog Lake NE R. 14 W. | R. 13 W. 46° 03′ 45″ 46° 03′ 45″ 92°03′45″ 92°00′00″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. Joins sheet 29, McKenzie Lake NE SCALE 1:12000 FROG LAKE SE, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 19 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION 0.5 KILOMETERS

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UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
92° 37′30″
529000m E BURNETT COUNTY, WISCONSIN MONSON LAKE NW QUADRANGLE SHEET NUMBER 20 OF 91 92° 33' 45" 46° 00′ 00″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. Joins sheet 32, Monson Lake SW SCALE 1:12000 MONSON LAKE NW, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 20 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION 0.5 KILOMETERS

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UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
92° 45′00″ BURNETT COUNTY, WISCONSIN LAKE CLAYTON SW QUADRANGLE SHEET NUMBER 30 OF 91 45°56′15″ 92° 45′00″ 92° 41′15″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. Joins sheet 43, Grantsburg NW SCALE 1:12000 LAKE CLAYTON SW, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 30 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION KILOMETERS

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BURNETT COUNTY, WISCONSIN MCKENZIE LAKE SW QUADRANGLE SHEET NUMBER 40 OF 91 **UNITED STATES** DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE Joins sheet 28, McKenzie Lake NW 92° 03′ 45″ 45°56′15″ Gaslyn Lake This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 MCKENZIE LAKE SW, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 40 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION 0.5 KILOMETERS

UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE BURNETT COUNTY, WISCONSIN MCKENZIE LAKE SE QUADRANGLE SHEET NUMBER 41 OF 91 92°00'00" Joins sheet 29, McKenzie Lake NE 92°03′45″ R. 14 W. | R. 13 W. 45°56′15″ McKenzie Lake McKenzie Lake Lipsett Lake 92°00′00″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 MCKENZIE LAKE SE, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 41 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION 0.5 KILOMETERS

UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
92° 48′ 45″ BURNETT COUNTY, WISCONSIN BASS CREEK NE QUADRANGLE SHEET NUMBER 42 OF 91 92° 45'00" 45°52′30″ 45°52′30″ 92° 48′ 45″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 BASS CREEK NE, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 42 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION KILOMETERS

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UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
92° 33' 45"

934,000m E BURNETT COUNTY, WISCONSIN FALUN NE QUADRANGLE SHEET NUMBER 46 OF 91 Joins sheet 33, Monson Lake SE 92°30′00″ R. 18 W. | R. 17 W. 45°52′30″ 534000mE 92°33′45″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. Joins sheet 59, Falun SE SCALE 1:12000 FALUN NE, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 46 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION 0.5 KILOMETERS

UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE BURNETT COUNTY, WISCONSIN SIREN EAST NE QUADRANGLE SHEET NUMBER 50 OF 91 Joins sheet 37, Webster SE 92°18′45″ R. 16 W. | R. 15 W. 556 Bass Lake Owl Lake This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 SIREN EAST NE, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 50 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION 0.5 KILOMETERS

BURNETT COUNTY, WISCONSIN HERTEL NE QUADRANGLE SHEET NUMBER 52 OF 91 **UNITED STATES** DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE Joins sheet 39, Birch Island Lake SE 92°11′15″ 563 000m E 92°07′30″ 568 R. 15 W. | R. 14 W. 45°52′30″ 45°52′30″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 HERTEL NE, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 52 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION 0.5 KILOMETERS

UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
92° 48′ 45″ BURNETT COUNTY, WISCONSIN BASS CREEK SE QUADRANGLE SHEET NUMBER 55 OF 91 Joins sheet 42, Bass Creek NE 92° 45′00″ R. 19 W. 45° 48′ 45″ _ R. 20 W. | R. 19 W. 92° 48′ 45″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 BASS CREEK SE, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 55 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION KILOMETERS

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BURNETT COUNTY, WISCONSIN HERTEL SW QUADRANGLE SHEET NUMBER 64 OF 91 UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE 92°11′15″ Joins sheet 51, Hertel NW R. 15 W. 45° 48′ 45″ Warner Lake This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 HERTEL SW, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 64 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION 0.5 KILOMETERS

UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
92° 07′ 30″

568,000m E BURNETT COUNTY, WISCONSIN POQUETTES LAKE SW QUADRANGLE SHEET NUMBER 66 OF 91 Joins sheet 53, Poquettes Lake NW 92° 03′45″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 POQUETTES LAKE SW, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 66 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION 0.5 KILOMETERS

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UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE BURNETT COUNTY, WISCONSIN FREDERIC NE QUADRANGLE SHEET NUMBER 75 OF 91 Joins sheet 61, Siren West SE 92°22′30″ 92° 26′15″ 45° 45′00″ POLK COUNTY 92° 26′15″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 FREDERIC NE, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 75 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION KILOMETERS

UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
92°18'45" BURNETT COUNTY, WISCONSIN CLAM FALLS NE QUADRANGLE SHEET NUMBER 77 OF 91 Joins sheet 63, Siren East SE 92°15′00″ R. 16 W. | R. 15 W. 556 45° 45′00″ 92°18′45″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 CLAM FALLS NE, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 77 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION KILOMETERS

UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE BURNETT COUNTY, WISCONSIN INDIAN CREEK NW QUADRANGLE SHEET NUMBER 78 OF 91 92°11′15″ ⁵63 Joins sheet 64, Hertel SW This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 INDIAN CREEK NW, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 78 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. 0.5 0 QUARTER QUADRANGLE LOCATION KILOMETERS

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UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
92° 56′15″

505 000m E BURNETT COUNTY, WISCONSIN RUSH CITY SE QUADRANGLE SHEET NUMBER 82 OF 91 R. 20 W. 92°52'30" 505 000mE 92° 56′15″ R. 20 W. 92°52′30″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 RUSH CITY SE, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 82 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION

BURNETT COUNTY, WISCONSIN TRADE RIVER SW QUADRANGLE SHEET NUMBER 85 OF 91 UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE Joins sheet 70, Trade River NW 92° 41′15″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 TRADE RIVER SW, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 85 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION



BURNETT COUNTY, WISCONSIN INDIAN CREEK SE QUADRANGLE SHEET NUMBER 89 OF 91 92° 07′30″ UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE Joins sheet 79, Indian Creek NE R. 15 W. | R. 14 W₅₆₆ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 INDIAN CREEK SE, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 89 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION KILOMETERS

UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE BURNETT COUNTY, WISCONSIN TIMBERLAND SW QUADRANGLE SHEET NUMBER 90 OF 91 Joins sheet 80, Timberland NW 92° 03′ 45″ 573 ⁵⁷³ 92° 03′45″ This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 TIMBERLAND SW, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 90 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION KILOMETERS

UNITED STATES
DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
92° 03' 45"
573,000m E BURNETT COUNTY, WISCONSIN TIMBERLAND SE QUADRANGLE SHEET NUMBER 91 OF 91 92°00'00" Joins sheet 81, Timberland NE R. 14 W. | R. 13 W. This soil survey was compiled by the U.S. Department of Agriculture, Natural Resources Conservation Service. Base maps are orthophotographs prepared by the U.S. Department of Interior, Geological Survey, from 1992-1998 aerial photography. The public land survey system (PLSS) information was acquired from the Wisconsin Department of Natural Resources. The cultural layers were edited to conform with features represented on the publication orthophotography and to enhance the clarity of the soils information. SCALE 1:12000 TIMBERLAND SE, WISCONSIN 0.5 3.75 MINUTE SERIES MILES SHEET NUMBER 91 OF 91 Soil map delineations extending beyond the dashed white quadrangle neatline are for reference only and are included on adjacent map sheets. North American Datum of 1983 (NAD83). GRS80 Spheroid 1000-meter ticks: Universal Transverse Mercator, zone 15. Coordinate grid ticks and land division data, if shown, are approximately positioned. Digital data are available for this quadrangle. QUARTER QUADRANGLE LOCATION KILOMETERS